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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
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Иркутск (395)279-98-46
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Калининград (4012)72-03-81
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Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Красноярск (391)204-63-61
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Магнитогорск (3519)55-03-13
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Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31
Пермь (342)205-81-47
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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

https://weidmuller.nt-rt.ru/ || wde@nt-rt.ru

Sensor-actuator cabling and circular connectors

Let's connect.



Weidmüller

Sensor-actuator cabling and circular connectors
Catalogue 8

Sensor-actuator cabling and circular connectors

Introduction – Sensor Actuator Interface

M8, M12 Sensor and actuator cables

M8, M12 Plug-in connectors and protective caps

M12 POWER (A-, S-, K-, L- and T-coded)

Passive distributors

Distributor with integrated logic

Weidmüller Industry Light

JACKPAC® (IP67)

Device connectors

SAI empty housing

7/8" connectors

M23 Connectors and cables

Remote I/O data line – Plug-in connectors and modules

Tools and markers

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Technical appendix

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M12 one end without connector, shielded Page B.15



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Valve cables one-sided Page B.53



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M8, M12 Plug-in connectors and protective caps

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M12 POWER (A-, S-, K-, L- and T-coded)

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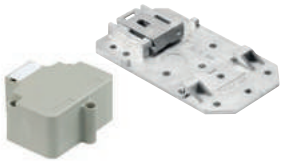

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Distributor with integrated logic

AND operation
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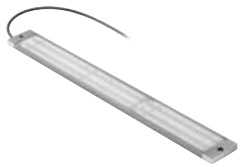


WIL – Weidmüller Industry Light

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SAI empty housing

SAI empty housing

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7/8“ connectors

7/8“ connector

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M23 Connectors and cables

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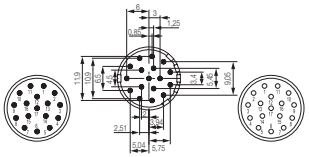
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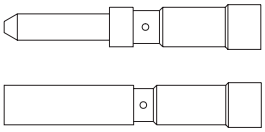
PushPull enclosure
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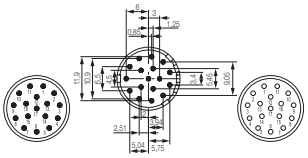
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Built-in connectors, stainless steel
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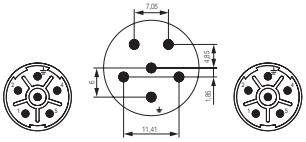
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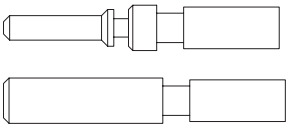
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M23 protective caps
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SAI distributor with M23
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Remote I/O data cables – Plug-in connectors and modules

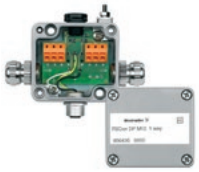
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PROFIBUS-DP - FBCon T-Verteiler Page M.23



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ASI - T-piece Page M.61



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Tools and markers

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Crimping tools Page N.12



Identification systems Page N.16



Sensor Actuator Interface

Sensor Actuator Interface Introduction A.2

Signal distribution via AND or OR circuit
SAI distributor with preprocessing logic circuit

In mechanical engineering, many sensors have to be wired and combined on a regular basis. For this, it is usually necessary to carry out the complete wiring to the PLC. SAI logic modules allow logical connections to be made to the distributors and, thus, save installation time.

Our SAI distributors with logic module contain logic circuits in groups of four. Four signals at a time are combined either via an AND or an OR circuit. A four-pin M12 connector transmits the data. In this way, only one input for a maximum of four sensors is required on the PLC.

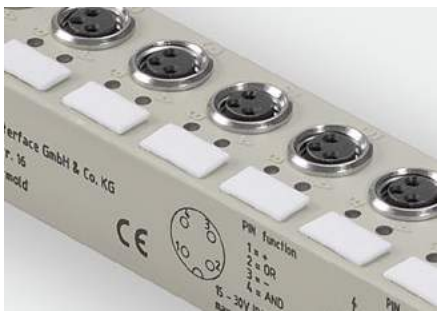
Your special advantages
- Very small design
- Combination of four signals to an AND or OR circuit
- Connection via a four-pin M12 connector

Available in two sizes
The modules are available with either four-way or eight-way M8 distributors.

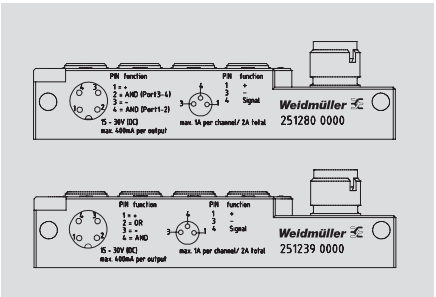




Small construction
The use of small M8 connectors enables a particularly space-saving design. The same applies to the four-pin M12 common plug for feedback of the collected signals.



Two logic functions available
M8 distributors are optionally available with AND circuit or alternatively with an AND and an OR circuit.



Fast connection – small dimensions
SAI M12 connector D-coded with IDC connection

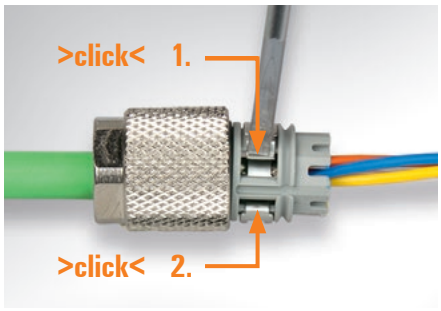
Nowadays, Ethernet cables are still frequently joined with traditional screw connections. Those connectors are relatively large, and their assembly is comparatively time-consuming. Connectors with insulation displacement connections save time and space.

The new SAI M12 connectors from Weidmüller have an insulation displacement connection and a unique shield connection solution. Installation saves time and costs in combination with PROFINET strands. The shield connection with a contact spring is likewise time- and cost-efficient. Each combination provides a suitable solution with remarkably small dimensions.

Your special advantages

- Easy handling
- Very small design
- Good shield connection

Simple shield connection
Its unique design makes the shield connection particularly simple.

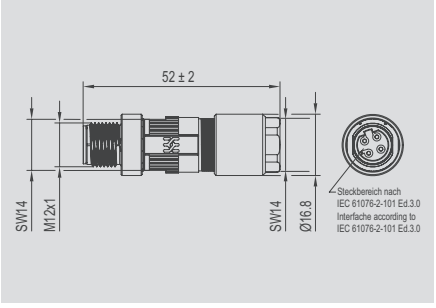




Time-saving connection technology
Fast, safe insulation displacement connection for particularly economical installation.

Space-saving construction
Significantly smaller dimensions than standard connectors.





Lighting for control cabinets and devices in the field
Weidmüller Industry Light WIL

Control cabinets are often insufficiently lit. Conventional cabinet lighting, however, is too large and expensive. A favourable lighting solution should be space-saving and effective to make maintenance work in cabinets more efficient and safe.

The new Weidmüller Industry Light meets these requirements. A compact LED light illuminates the inside of the cabinet with a wide light cone. The smart solution can be used as illumination in the field as well.

The new LED light is designed to fit exactly into a standard cabinet and is protected against water and dust for field use in accordance with IP67. Its intelligent design makes it extremely robust and small.

Your special advantages

Optimal illumination for any purpose: Increasing safety requirements and growing cost pressures call for an increasingly more efficient deployment of maintenance workers in the field. Weidmüller Industry Light WIL is a powerful, elegant and economical solution, reducing the time required for and costs of maintenance.



Contemporary and energy-saving lighting solution for various industrial fields.

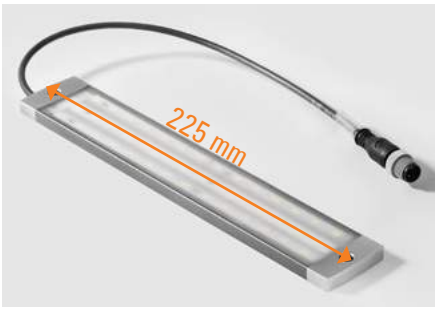
Robust and modern design
The aluminium housing is designed to withstand even the harshest environmental conditions.



SAI modules for installation
The Weidmüller Industry Light can be sold together with our power supplies or with our SAI distributors and cables



Conventional mounting
The mounting holes are positioned at intervals of 225 mm, suitable for the mounting situation in most control cabinets.





Wide light cone
The unique LED arrangement provides a very wide light cone that perfectly illuminates the control cabinet.



Easy and extendable connection
The M12 plug allows for a fast and easy connection to the power supply.



Are you already a Weidmüller customer?

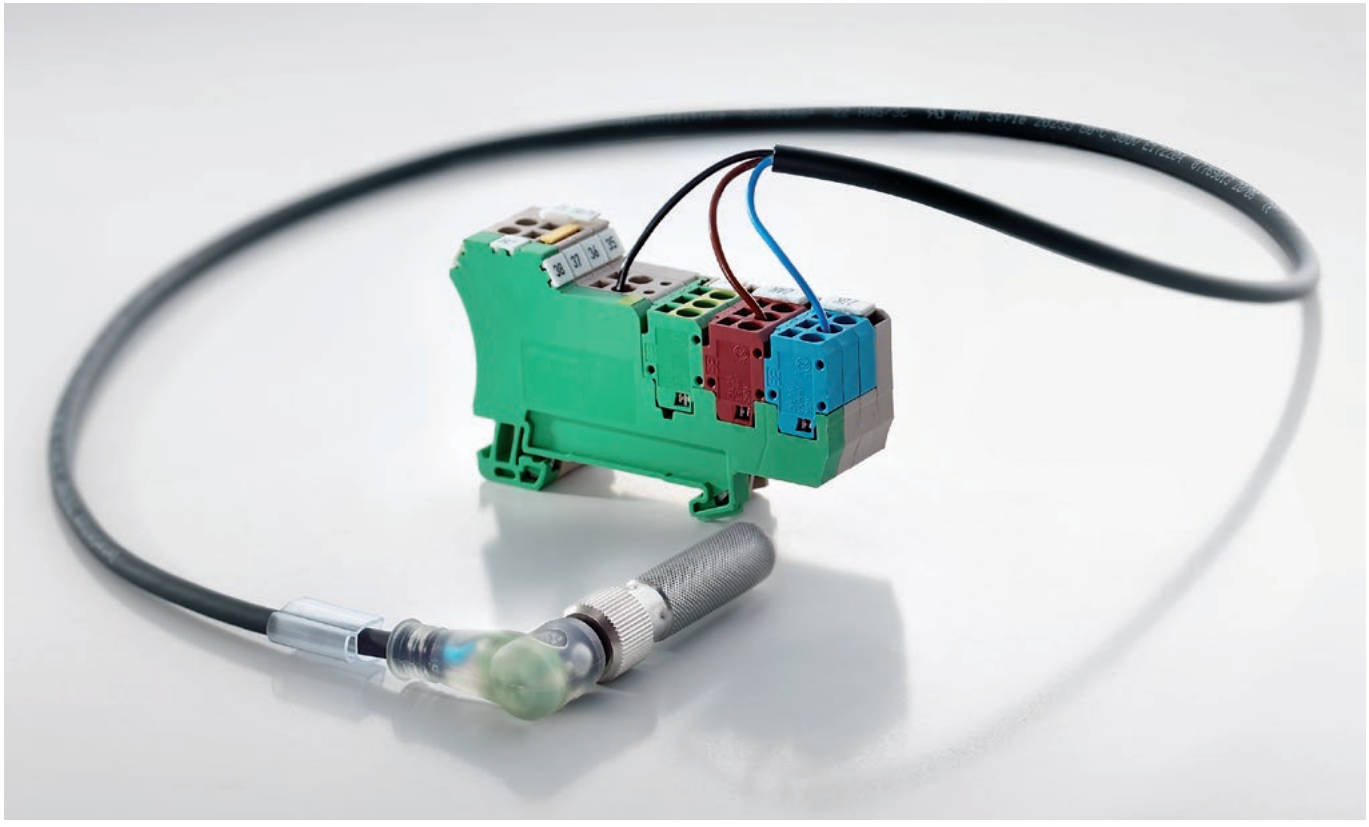
Then why not order your M12 or M8 cables from us!

Weidmüller supplies an extremely wide range of M12 and M8 cables, naturally with our proven Weidmüller quality assurance.

To answer as many demands as possible, we offer:

- PVC cables
- PUR/halogen-free cables

Of course, with very short delivery times and best conditions. Please do not hesitate to contacts us for a quote or to receive further information.



M8, M12 Sensor and actuator cables

M8, M12 Sensor and actuator cables	Introduction	B.2
	Overview of sensor cables	B.4
	Sensor cables	B.10
	Sensor cables B-coded	B.48
	Connectors – accessories	B.51
	Valve cables	B.52
	Connecting cable for sensors and actuators	B.62
	Connecting cables for Weidmüller distributor	B.72

SAI cable

In an increasingly digital environment, the reliable transmission of power, signals and data requires the rapid availability of standardised cabling solutions and the development of individual special cables.
Irrespective of whether you require signal cables for sensor lines or data cables for Ethernet lines with different mating profiles – Weidmüller offers the right solution for every field of application. With different levels of individualisation, we accommodate your needs in every planning situation: Order standard cable and plug combinations directly from the catalogue or create your own variations with the aid of our online configurator or together with the Weidmüller specialist. We offer you individual solutions with needs-based cable lengths, plugs, markings or colours from a batch size of one. From the standard solution through to the new development - with us you are always correctly connected.



Sensor cables from Weidmüller: shown here with yellow and black cables, together with bus cables



Easy to identify

The EAN number on each label can be scanned in.



Resistant to vibration

M8 with vibration resistance



High quality

Compatible for use in robots;
with recyclable, halogen-free cables



Versatile

Customised cables



One end without connector



Connecting cables

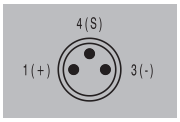
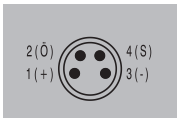
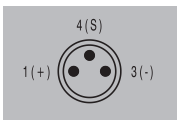
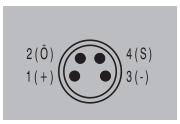
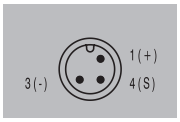
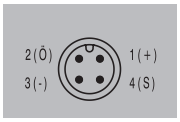
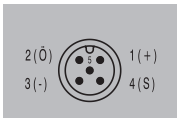
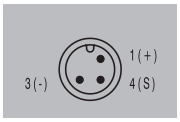
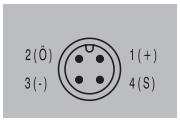
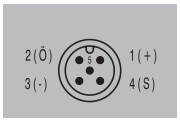


Valve cables



Connection cables / bus cables

Overview of sensor cables

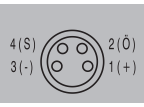
		No. of poles	Cable material	One end free: PUR halogen-free	One end free: PVC	M8 socket straight: PUR halogen-free	M8 socket straight: PVC
One end free			1.5 m			9457450150	1927240150
			3.0 m			9457450300	1927240300
			5.0 m			9457450500	1927240500
			10.0 m			9457451000	1927241000
			variable			9457450000	1927240000
M8 plug	straight		1.5 m	1824590150	1927230150	1824570150	1927150150
			3.0 m	1824590300	1927230300	1824570300	1927150300
			5.0 m	1824590500	1927230500	1824570500	1927150500
			10.0 m	1824591000	1927231000	1824571000	1927151000
			variable	1824590000	1927230000	1824570000	1927150000
			1.5 m	1906270150	1927250150		
			3.0 m	1906270300	1927250300		
			5.0 m	1906270500	1927250500	***	***
			10.0 m	1906271000	1927251000		
			variable	1906270000	1927250000		
	90°		1.5 m	1857550150	1927310150	1073020150	
			3.0 m	1857550300	1927310300	1073020300	
			5.0 m	1857550500	1927310500	1073020500	On request
			10.0 m	1857551000	1927311000	1073021000	
			variable	1857550000	1927310000	1073020000	
			1.5 m	1857560150	1927330150		
			3.0 m	1857560300	1927330300		
			5.0 m	1857560500	1927330500	***	***
			10.0 m	1857561000	1927331000		
			variable	1857560000	1927330000		
M12 plug	straight		1.5 m	9457810150	1925430150	9457770150	1938170150
			3.0 m	9457810300	1925430300	9457770300	1938170300
			5.0 m	9457810500	1925430500	9457770500	1938170500
			10.0 m	9457811000	1925431000	9457771000	1938171000
			variable	9457810000	1925430000	9457770000	1938170000
			1.5 m	9456100150	1925440150		
			3.0 m	9456100300	1925440300		
			5.0 m	9456100500	1925440500	***	***
			10.0 m	9456101000	1925441000		
			variable	9456100000	1925440000		
			1.5 m	9457610150	1925450150		
			3.0 m	9457610300	1925450300		
			5.0 m	9457610500	1925450500	***	***
			10.0 m	9457611000	1925451000		
			variable	9457610000	1925450000		
	90°		1.5 m	9456690150	1925510150	1304740150	
			3.0 m	9456690300	1925510300	1304740300	
			5.0 m	9456690500	1925510500		On request
			10.0 m	9456691000	1925511000		
			variable	9456690000	1925510000		
			1.5 m	1906260150	1925520150		
			3.0 m	1906260300	1925520300		
			5.0 m	1906260500	1925520500	***	***
			10.0 m	1906261000	1925521000		
			variable	1906260000	1925520000		
			1.5 m	9457670150	1925530150		
			3.0 m	9457670300	1925530300		
			5.0 m	9457670500	1925530500	***	***
			10.0 m	9457671000	1925531000		
			variable	9457670000	1925530000		

Preferred types / extracted from the complete line. Please make a separate enquiry for information about the M8 snap-on version, twin cabling and others.

M8 socket

straight

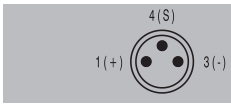




PUR halogen-free	PVC
9457850150	1927260150
9457850300	1927260300
9457850500	1927260500
9457851000	1927261000
	1927260000
***	***
1880470150	1927160150
1880470300	1927160300
1880470500	1927160500
1880471000	1927161000
1880470000	1927160000
***	***
1535470150	
1535470300	
1535470500	On request
***	***
9456660150	1938200150
9456660300	1938200300
9456660500	1938200500
9456661000	1938201000
9456660000	1938200000
***	***
1437510150	
1437510300	
1437510500	On request
1437511000	
***	***

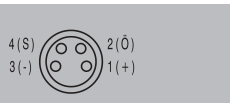
90°





PUR halogen-free	PVC
9457380150	1927320150
9457380300	1927320300
9457380500	1927320500
9457381000	1927321000
9457380000	1927320000
1824580150	1927170150
1824580300	1927170300
1824580500	1927170500
1824581000	1927171000
1824580000	1927170000
***	***
1857670150	1927210150
1857670300	1927210300
1857670500	1927210500
1857671000	1927211000
1857670000	1927210000
***	***
9457980150	1938180150
9457980300	1938180300
9457980500	1938180500
9457981000	1938181000
9457980000	1938180000
***	***
***	***
1906330150	1938190150
1906330300	1938190300
1906330500	1938190500
1906331000	1938191000
1906330000	1938190000
***	***
***	***

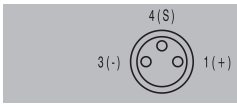




PUR halogen-free	PVC
9456150150	1927340150
9456150300	1927340300
9456150500	1927340500
9456151000	1927341000
9456150000	1927340000
***	***
1857660150	1927180150
1857660300	1927180300
1857660500	1927180500
1857661000	1927181000
1857660000	1927180000
***	***
1857680150	1927220150
1857680300	1927220300
1857680500	1927220500
1857681000	1927221000
1857680000	1927220000
***	***
9456670150	1938210150
9456670300	1938210300
9456670500	1938210500
9456671000	1938211000
9456670000	1938210000
***	***
1906340150	1938220150
1906340300	1938220300
1906340500	1938220500
1906341000	1938221000
1906340000	1938220000
***	***

90° angle with 2 LEDs





PUR halogen-free	PVC
9457460150	1927350150
9457460300	1927350300
9457460500	1927350500
9457461000	1927351000
9457460000	1927350000
1877250150	1927190150
1877250300	1927190300
1877250500	1927190500
1877251000	1927191000
1877250000	1927190000
***	***
On request	On request
***	***
9457760150	
9457760300	
9457760500	***
9457761000	
9457760000	
***	***
***	***
***	***
***	***
***	***

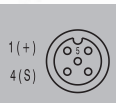
Overview of sensor cables

				M12 socket			
				straight			
							
		No. of poles		1(+) 4(S) 3(-)		1(+) 4(S) 2(Ö) 3(-)	
			Cable material	PUR halogen-free	PVC	PUR halogen-free	PVC
One end free			1.5 m	9457820150	1925570150	9457730150	1925580150
			3.0 m	9457820300	1925570300	9457730300	1925580300
			5.0 m	9457820500	1925570500	9457730500	1925580500
			10.0 m	9457821000	1925571000	9457731000	1925581000
			variable	9457820000	1925570000	9457730000	1925580000
M8 plug	straight	 4(S) 1(+) 3(-)	1.5 m	1937950150	1938230150	***	***
			3.0 m	1937950300	1938230300		
			5.0 m	1937950500	1938230500		
			10.0 m	1937951000	1938231000		
			variable	1937950000	1938230000		
		 2(Ö) 1(+) 4(S) 3(-)	1.5 m	***	***	1937980150	1938260150
			3.0 m			1937980300	1938260300
			5.0 m			1937980500	1938260500
			10.0 m			1937981000	1938261000
			variable			1937980000	1938260000
	90°	 4(S) 1(+) 3(-)	1.5 m	On request	On request	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
		 2(Ö) 1(+) 4(S) 3(-)	1.5 m	***	***	1513130500	
			3.0 m				
			5.0 m				On request
			10.0 m				
			variable				
M12 plug	straight	 3(-) 1(+) 4(S)	1.5 m	9457230150	1925300150	***	***
			3.0 m	9457230300	1925300300		
			5.0 m	9457230500	1925300500		
			10.0 m	9457231000	1925301000		
			variable	9457230000	1925300000		
		 2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	1906300150	1925310150
			3.0 m			1906300300	1925310300
			5.0 m			1906300500	1925310500
			10.0 m			1906301000	1925311000
			variable			1906300000	1925310000
		 2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
	90°	 3(-) 1(+) 4(S)	1.5 m	1821050150	On request	***	***
			3.0 m	1821050300			
			5.0 m	1821050500			
			10.0 m	1821051000			
			variable	1821050000			
		 2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	1071990150	On request
			3.0 m			1071990300	
			5.0 m			1071990500	
			10.0 m			1071991000	
			variable				
		 2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				

M12 socket

straight

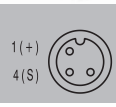




PUR halogen-free	PVC
9457910150	1925590150
9457910300	1925590300
9457910500	1925590500
9457911000	1925591000
9457910000	1925590000
***	***
***	***
***	***
***	***
***	***
***	***
9457340150	1925320150
9457340300	1925320300
9457340500	1925320500
9457341000	1925321000
9457340000	1925320000
***	***
***	***
9456500150	On request
9456500300	
9456500500	
9456501000	
9456500000	

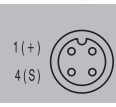
90°





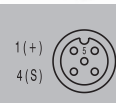
PUR halogen-free	PVC
9457320150	1925630150
9457320300	1925630300
9457320500	1925630500
9457321000	1925631000
9457320000	1925630000
1937960150	1938240150
1937960300	1938240300
1937960500	1938240500
1937961000	1938241000
1937960000	1938240000
***	***
1937970150	1938250150
1937970300	1938250300
1937970500	1938250500
1937971000	1938251000
1937970000	1938250000
***	***
9457390150	1925340150
9457390300	1925340300
9457390500	1925340500
9457391000	1925341000
9457390000	1925340000
***	***
***	***
1815670150	1925380150
1815670300	1925380300
1815670500	1925380500
1815671000	1925381000
1815670000	1925380000
***	***
***	***





PUR halogen-free	PVC
9457740150	1925640150
9457740300	1925640300
9457740500	1925640500
9457741000	1925641000
9457740000	1925640000
***	***
1937990150	1938270150
1937990300	1938270300
1937990500	1938270500
1937991000	1938271000
1937990000	1938270000
***	***
1938000150	1938280150
1938000300	1938280300
1938000500	1938280500
1938001000	1938281000
1938000000	1938280000
***	***
9457310150	1925350150
9457310300	1925350300
9457310500	1925350500
9457311000	1925351000
9457310000	1925350000
***	***
1906310150	1925390150
1906310300	1925390300
1906310500	1925390500
1906311000	1925391000
1906310000	1925390000
***	***





PUR halogen-free	PVC
9457690150	1925650150
9457690300	1925650300
9457690500	1925650500
9457691000	1925651000
9457690000	1925650000
***	***
***	***
***	***
***	***
***	***
***	***
9457270150	1925360150
9457270300	1925360300
9457270500	1925360500
9457271000	1925361000
9457270000	1925360000
***	***
***	***
9457900150	1925400150
9457900300	1925400300
9457900500	1925400500
9457901000	1925401000
9457900000	1925400000

Overview of sensor cables

		No. of poles	Cable material	M12 socket, 90° angle with 2 LEDs			
							
				1(+) 4(S) 3(-)		1(+) 4(S) 2(Ö) 3(-)	
				PUR halogen-free	PVC	PUR halogen-free	PVC
One end free			1.5 m	9457800150	1925460150	9456380150	1925470150
			3.0 m	9457800300	1925460300	9456380300	1925470300
			5.0 m	9457800500	1925460500	9456380500	1925470500
			10.0 m	9457801000	1925461000	9456381000	1925471000
			variable	9457800000	1925460000	9456380000	1925470000
M8 plug	straight	4(S) 1(+) 3(-)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
		2(Ö) 1(+) 4(S) 3(-)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
	90°	4(S) 1(+) 3(-)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
		2(Ö) 1(+) 4(S) 3(-)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
M12 plug	straight	3(-) 1(+) 4(S)	1.5 m	9457790150	1925410150	***	***
			3.0 m	9457790300	1925410300		
			5.0 m	9457790500	1925410500		
			10.0 m	9457791000	1925411000		
			variable	9457790000	1925410000		
		2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	1906410150	1925420150
			3.0 m			1906410300	1925420300
			5.0 m			1906410500	1925420500
			10.0 m			1906411000	1925421000
			variable			1906410000	1925420000
		2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
	90°	3(-) 1(+) 4(S)	1.5 m	On request	On request	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
		2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	On request	On request
			3.0 m				
			5.0 m				
			10.0 m				
			variable				
		2(Ö) 3(-) 1(+) 4(S)	1.5 m	***	***	***	***
			3.0 m				
			5.0 m				
			10.0 m				
			variable				

Sensor cables with plug at one end only

M12



M8



M8 Snap connection



Twin cabling



M5



Sensor/actuator cable pre-assembled with M8/M12 plug-in connector at one end

Machine designers frequently require individual cable lengths. Sensor cables, with a connector fitted at one end only, can be easily adapted to the corresponding situation. The cables are available in many different versions: straight, 90° and with all common pole numbers (3, 4, 5, 8 and 12 Pole). Male plugs and Female sockets can be assembled to suit individual customer requirements for connecting cables. The cable sheathing is made of PUR (polyurethane) or PVC (polyvinylchloride), the PUR cables are suitable for use with cable carrier systems. Plugs and cables are in neutral black.

Sensor cables

Weidmüller can supply various cable lengths as indicated in the following table:

Typical cable lengths are:

• 1.5 m	• 3.0 m	• 5.0 m	• 10.0 m

Example of designation

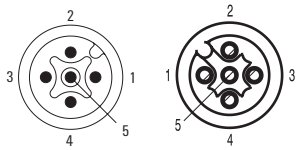
Connector at one end only

SAIL-M8 B G R - 3 S 1.5 U

- L = Metal nut; P = Plastic nut; V = Stainless steel
- M12; M8
- not specified = Pin; B = Socket
- G = straight; W = 90°
- for M8 socket: R = Clip; for M8 pin and M12: not specified
- 3; 4; 5; 8; 12 — No. poles, A-coded
- 2/4 bridged (only with M12B)
- PB = Profibus DP; CD = CANBUS/ DeviceNet™
- Cable length: 1.5 m; 3.0 m; 5.0 m; 10 m; X m
- Cable: V = PVC-PVC; U = PUR halogen-free; C = PVC-PVC 0.5 mm²; R = PUR-PVC 0.5 mm²; T = resistant to splatter; TP = resistant to splatter + PE
- – = no options; S = shielded (not with PB/CD); L = LED (only with M8BW 3 + 4 pol./M12BW 3 pol. + 2/4); -2L = with 2 LEDs; -3L = with 3 LEDs; -3LW = with 3 LEDs (white LED) — only with M12BW 4 pol.

One end without connector
M12
A-coded





Ordering data

		3-pole	4-pole	5-pole
Male, straight				
PVC	1.5 m	SAIL-M12G-3-1.5V **1925430150**	SAIL-M12G-4-1.5V **1925440150**	SAIL-M12G-5-1.5V **1925450150**
PUR halogen-free	1.5 m	SAIL-M12G-3-1.5U **9457810150**	SAIL-M12G-4-1.5U **9456100150**	SAIL-M12G-5-1.5U **9457610150**
PUR halogen-free yellow	1.5 m	SAIL-M12G-3-1.5UGE **1092980150**	SAIL-M12G-4-1.5UGE **1077750150**	SAIL-M12G-5-1.5UGE **1092990150**
Resistant to welding beads	1.5 m	SAIL-M12G-3-1.5T **1021750150**	SAIL-M12G-4-1.5T **1021770150**	SAIL-M12G-5-1.5T **1021650150**
Male, angled				
PVC	1.5 m	SAIL-M12W-3-1.5V **1925510150**	SAIL-M12W-4-1.5V **1925520150**	SAIL-M12W-5-1.5V **1925530150**
PUR halogen-free	1.5 m	SAIL-M12W-3-1.5U **9456690150**	SAIL-M12W-4-1.5U **1906260150**	SAIL-M12W-5-1.5U **9457670150**
PUR halogen-free yellow	1.5 m	SAIL-M12W-3-1.5UGE **1093160150**	SAIL-M12W-4-1.5UGE **1093170150**	SAIL-M12W-5-1.5UGE **1093180150**
Resistant to welding beads	1.5 m	SAIL-M12W-3-1.5T **1021760150**	SAIL-M12W-4-1.5T **1021790150**	SAIL-M12W-5-1.5T **1021660150**
Female, straight				
PVC	1.5 m	SAIL-M12BG-3-1.5V **1925570150**	SAIL-M12BG-4-1.5V **1925580150**	SAIL-M12BG-5-1.5V **1925590150**
PUR halogen-free	1.5 m	SAIL-M12BG-3-1.5U **9457820150**	SAIL-M12BG-4-1.5U **9457730150**	SAIL-M12BG-5-1.5U **9457910150**
PUR halogen-free yellow	1.5 m	SAIL-M12BG-3-1.5UGE **1092910150**	SAIL-M12BG-4-1.5UGE **1092920150**	SAIL-M12BG-5-1.5UGE **1092930150**
Resistant to welding beads	1.5 m	SAIL-M12BG-3-1.5T **1968590150**	SAIL-M12BG-4-1.5T **1968580150**	SAIL-M12BG-5-1.5T **1021670150**
Female, angled				
PVC	1.5 m	SAIL-M12BW-3-1.5V **1925630150**	SAIL-M12BW-4-1.5V **1925640150**	SAIL-M12BW-5-1.5V **1925650150**
PUR halogen-free	1.5 m	SAIL-M12BW-3-1.5U **9457320150**	SAIL-M12BW-4-1.5U **9457740150**	SAIL-M12BW-5-1.5U **9457690150**
PUR halogen-free yellow	1.5 m	SAIL-M12BW-3-1.5UGE **1092940150**	SAIL-M12BW-4-1.5UGE **1092960150**	SAIL-M12BW-5-1.5UGE **1092970150**
Resistant to welding beads	1.5 m	SAIL-M12BW-3-1.5T **1968560150**	SAIL-M12BW-4-1.5T **1968570150**	SAIL-M12BW-5-1.5T **1021690150**
Note		Other versions on request	Other versions on request	Other versions on request

Standard cable lengths

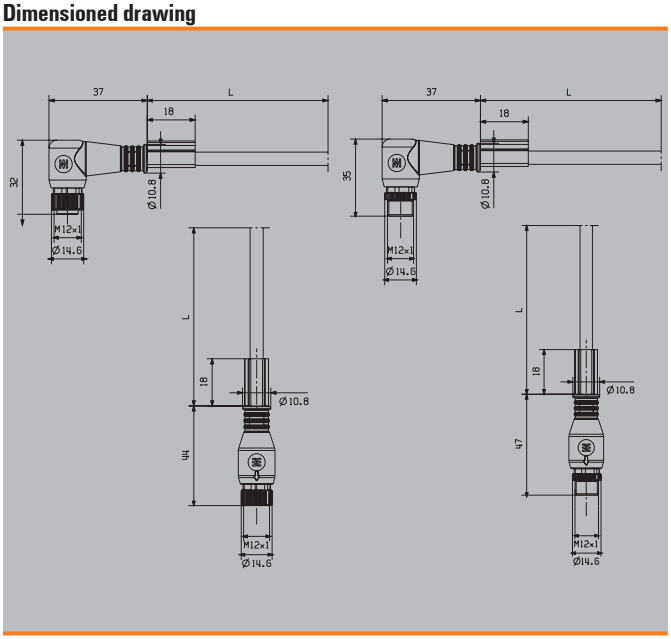
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

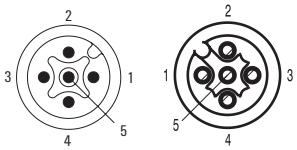
Further technical data of the cables on catalog.

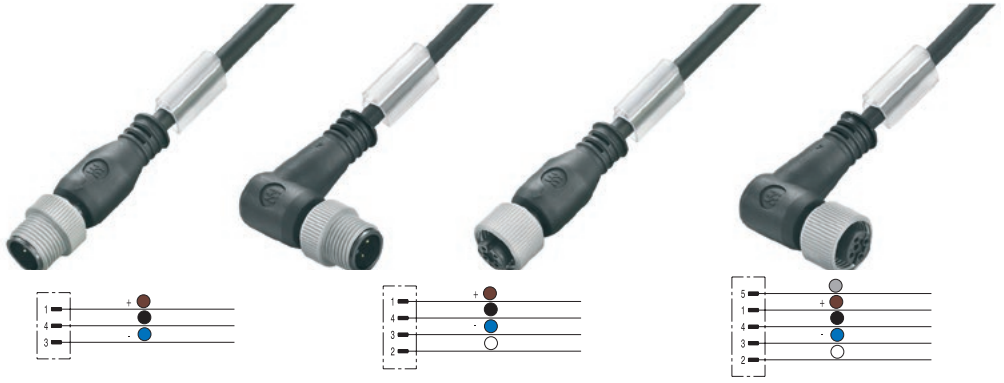
Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded
with plastic threaded ring





Ordering data

		3-pole	4-pole	5-pole
Male, straight				
PUR halogen-free	1.5 m	SAIP-M12G-3-1.5U **1108800150**	SAIP-M12G-4-1.5U **1108810150**	SAIP-M12G-5-1.5U **1108820150**
Male, angled				
PUR halogen-free	1.5 m	SAIP-M12W-3-1.5U **1108670150**	SAIP-M12W-4-1.5U **1108680150**	SAIP-M12W-5-1.5U **1108690150**
Female, straight				
PUR halogen-free	1.5 m	SAIP-M12BG-3-1.5U **1108730150**	SAIP-M12BG-4-1.5U **1108740150**	SAIP-M12BG-5-1.5U **1108750150**
Female, angled				
PUR halogen-free	1.5 m	SAIP-M12BW-3-1.5U **1108770150**	SAIP-M12BW-4-1.5U **1108780150**	SAIP-M12BW-5-1.5U **1108790150**
Note				

Standard cable lengths

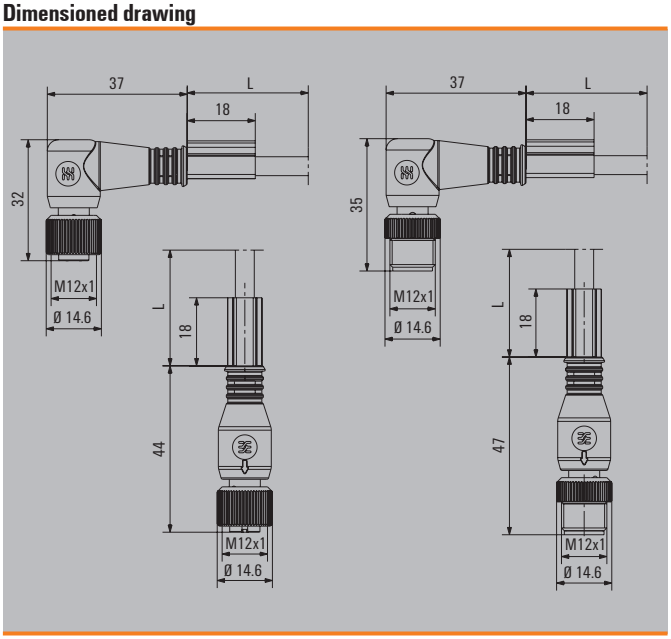
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

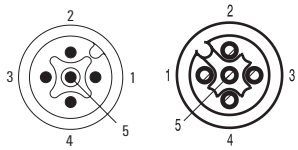
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus

Further technical data of the cables on catalog.

Dimensioned drawing

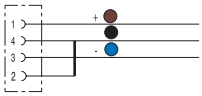


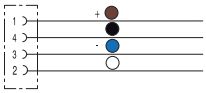
One end without connector
M12
A-coded
with stainless steel thread and
bridge between pin 2 and 4
1.4404/316L



Male Female







Ordering data

		3-pole	4-pole	
Female, straight				
PUR halogen-free	1.5 m	SAIV-M12BG-2/4-1.5U **1939410150**	SAIV-M12BG-4-1.5U **9457950150**	
Female, angled				
PUR halogen-free	1.5 m	SAIV-M12BW-2/4-1.5U **1939370150**	SAIV-M12BW-4-1.5U **9457960150**	
Note				

Standard cable lengths

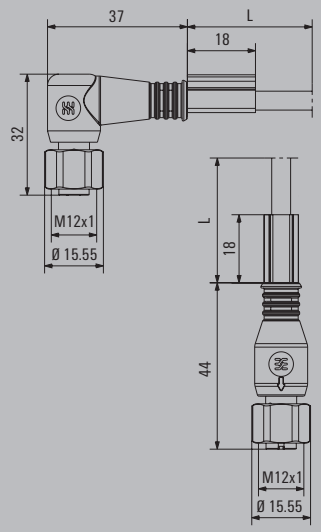
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus

Further technical data of the cables on catalog.

Dimensioned drawing



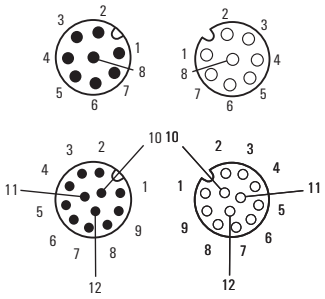
Sensor cables

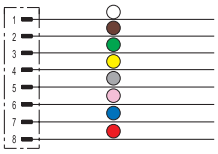
One end without connector

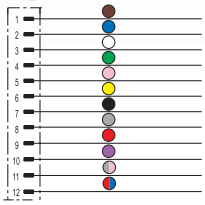
M12

A-coded









Ordering data

		8-pole	12-pole	
Male, straight				
PUR halogen-free	1.5 m	SAIL-M12G-8-1.5U **1279410150**	SAIL-M12G-12-1.5U **1311700150**	
Male, angled				
PUR halogen-free	1.5 m	SAIL-M12W-8-1.5U **1279420150**	SAIL-M12W-12-1.5U **1311690150**	
Female, straight				
PUR halogen-free	1.5 m	SAIL-M12BG-8-1.5U **1865870150**	SAIL-M12BG-12-1.5U **1879710150**	
Female, angled				
PUR halogen-free	1.5 m	SAIL-M12BW-8-1.5U **1883460150**	SAIL-M12BW-12-1.5U **1898240150**	
Male, straight - female, straight				
PUR halogen-free	1.5 m	SAIL-M12GM12G-8-1.5U **1279440150**		
Male, straight - female, angled				
PUR halogen-free	1.5 m	SAIL-M12GM12W-8-1.5U **1279450150**		
Note		Other versions on request		

Standard cable lengths

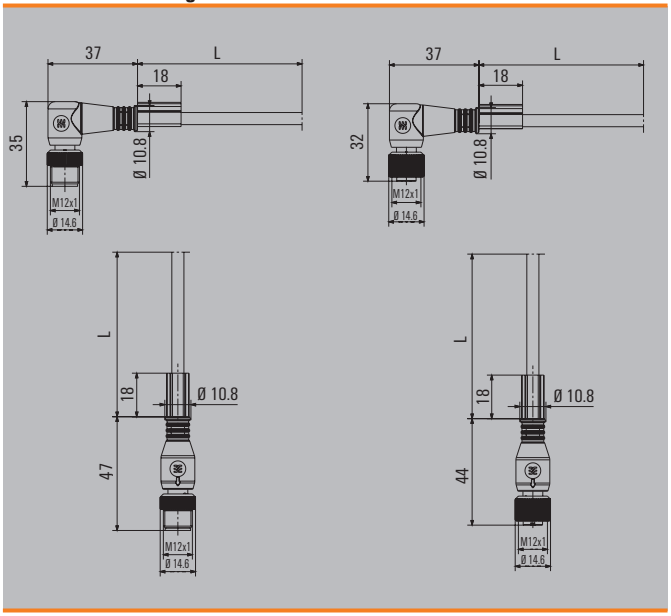
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	2 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	30 V
Approvals	cULus

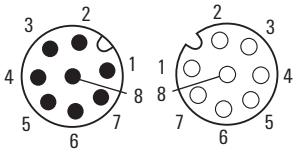
Further technical data of the cables on catalog.

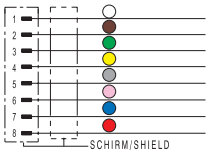
Dimensioned drawing



One end without connector
M12
A-coded
shielded







Ordering data

		8-pole
Male, straight		
PUR halogen-free	1.5 m	SAIL-M12G-8S1.5U **1279430150**
Male, angled		
PUR halogen-free	1.5 m	SAIL-M12W-8S1.5U **1276060150**
Female, straight		
PUR halogen-free	1.5 m	SAIL-M12BG-8S1.5U **1890520150**
Female, angled		
PUR halogen-free	1.5 m	SAIL-M12BW-8S1.5U **1275470150**
Male, straight - female, straight		
PUR halogen-free	1.5 m	SAIL-M12GM12G-8S1.5U **1279460150**
Male, straight - female, angled		
PUR halogen-free	1.5 m	SAIL-M12GM12W-8S1.5U **1279470150**
Note		Other versions on request

Standard cable lengths

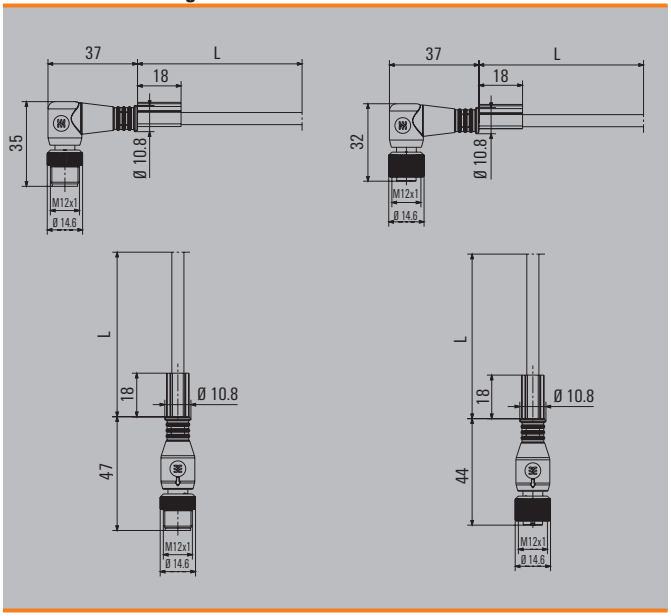
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	2 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	30 V
Approvals	cULus

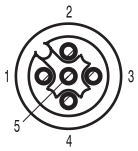
Further technical data of the cables on catalog.

Dimensioned drawing

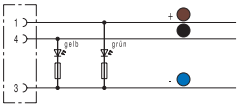


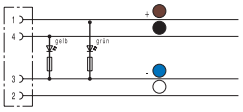
One end without connector
M12 with LED
A-coded

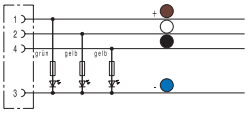




Male Female







Ordering data

Female, straight		2 LEDs 3-pole		2 LEDs 4-pole		3 LEDs 4-pole	
PUR	1.5 m	SAIL-M12BG-3L1.5U	1292620150				
PUR	2.0 m			SAIL-M12BG-4-2L2.0U	1094190200		
Female, angled							
PVC	1.5 m	SAIL-M12BW-3L1.5V	1925460150	SAIL-M12BW-4-2L1.5V	1925470150	SAIL-M12BW-4-3L1.5V	1963960150
PUR halogen-free	1.5 m	SAIL-M12BW-3L1.5U	9457800150	SAIL-M12BW-4-2L1.5U	9456380150	SAIL-M12BW-4-3L1.5U	1963940150
PUR halogen-free yellow	1.5 m	SAIL-M12BW-3L1.5UGE	1114880150	SAIL-M12BW-4-2L1.5UGE	1092950150		
Resistant to welding beads	1.5 m	SAIL-M12BW-3L1.5T	1004330150	SAIL-M12BW-4-2L1.5T	1007000150		
Note		Other versions on request		Other versions on request		Other versions on request	

Standard cable lengths

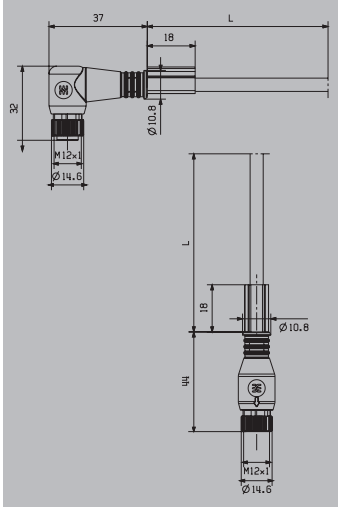
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

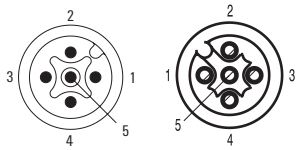
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	UL

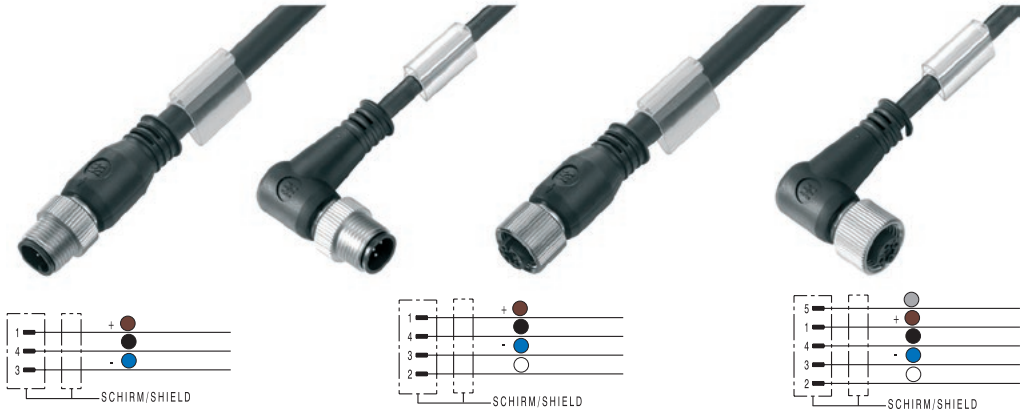
Further technical data of the cables on catalog.

Dimensioned drawing



One end without connector
M12
A-coded
shielded





Ordering data

		3-pole	4-pole	5-pole
Male, straight				
PUR halogen-free	1.5 m	SAIL-M12G-3S1.5U **1906470150**	SAIL-M12G-4S1.5U **1906480150**	SAIL-M12G-5S1.5U **1926690150**
Male, angled				
PUR halogen-free	1.5 m	SAIL-M12W-3S1.5U **1906500150**	SAIL-M12W-4S1.5U **1059650150**	SAIL-M12W-5S1.5U **1906520150**
Female, straight				
PUR halogen-free	1.5 m	SAIL-M12BG-3S1.5U **1867410150**	SAIL-M12BG-4S1.5U **1812540150**	SAIL-M12BG-5S1.5U **9456140150**
Female, angled				
PUR halogen-free	1.5 m	SAIL-M12BW-3S1.5U **1906950150**	SAIL-M12BW-4S1.5U **1808970150**	SAIL-M12BW-5S1.5U **1906540150**
Note		Other versions on request	Other versions on request	Other versions on request

Standard cable lengths

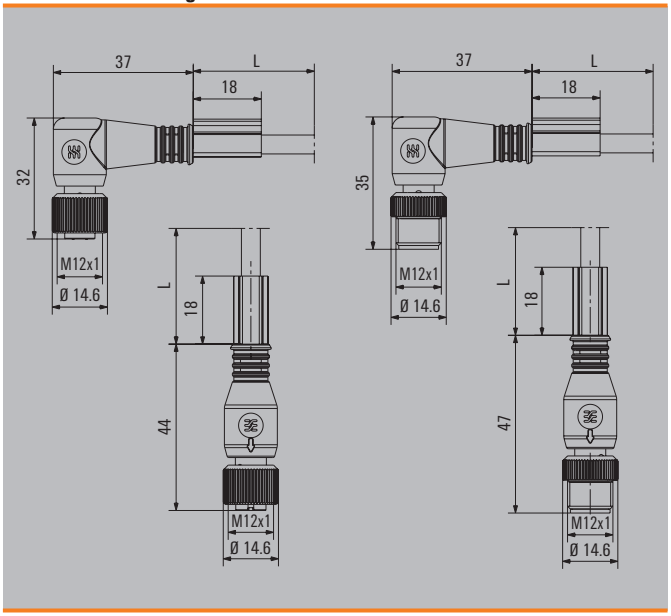
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus

Further technical data of the cables on catalog.

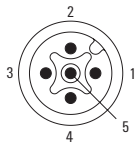
Dimensioned drawing



Sensor cables

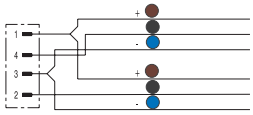
One end without connector
M12 twin cabling





Male

Female



Ordering data

		3-pole
Male straight - open ended		
PUR halogen-free	1.5 m	SAIL-ZW-3-1.5U **1964310150**
Note		

Standard cable lengths

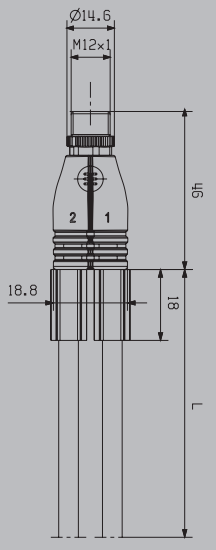
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	CSA; cULus

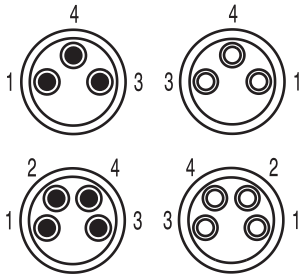
Further technical data of the cables on catalog.

Dimensioned drawing



One end without connector

M8



Male Female



Ordering data

		3-pole	4-pole	
Male, straight				
PVC	1.5 m	SAIL-M8G-3-1.5V **1927230150**	SAIL-M8G-4-1.5V **1927250150**	
PUR halogen-free	1.5 m	SAIL-M8G-3-1.5U **1824590150**	SAIL-M8G-4-1.5U **1906270150**	
Male, angled				
PVC	1.5 m	SAIL-M8W-3-1.5V **1927310150**	SAIL-M8W-4-1.5V **1927330150**	
PUR halogen-free	1.5 m	SAIL-M8W-3-1.5U **1857550150**	SAIL-M8W-4-1.5U **1857560150**	
Female, straight				
PVC	1.5 m	SAIL-M8BG-3-1.5V **1927240150**	SAIL-M8BG-4-1.5V **1927260150**	
PUR halogen-free	1.5 m	SAIL-M8BG-3-1.5U **9457450150**	SAIL-M8BG-4-1.5U **9457850150**	
PUR halogen-free yellow	1.5 m	SAIL-M8BG-3-1.5UGE **1093190150**	SAIL-M8BG-4-1.5UGE **1093200150**	
Female, angled				
PVC	1.5 m	SAIL-M8BW-3-1.5V **1927320150**	SAIL-M8BW-4-1.5V **1927340150**	
PUR halogen-free	1.5 m	SAIL-M8BW-3-1.5U **9457380150**	SAIL-M8BW-4-1.5U **9456150150**	
PUR halogen-free yellow	1.5 m	SAIL-M8BW-3-1.5UGE **1093220150**	SAIL-M8BW-4-1.5UGE **1093240150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

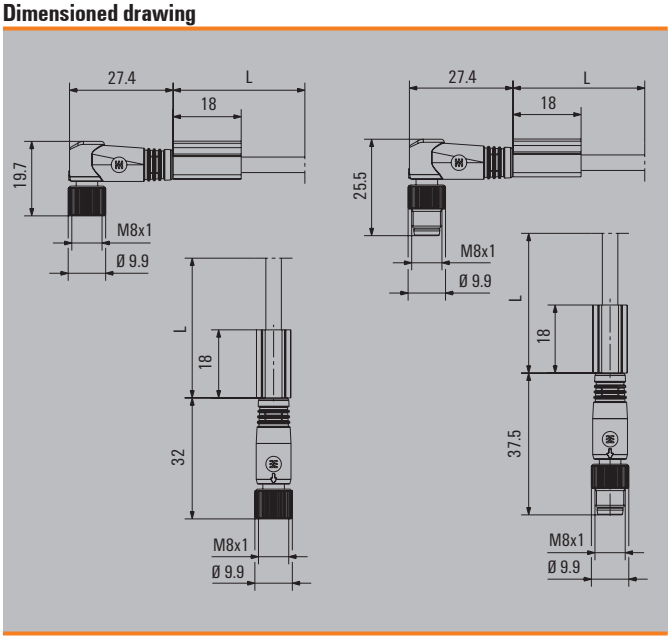
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

Further technical data of the cables on catalog.

Dimensioned drawing

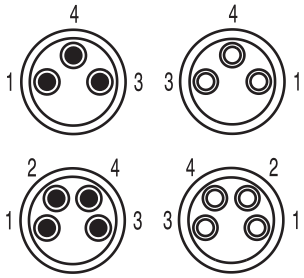


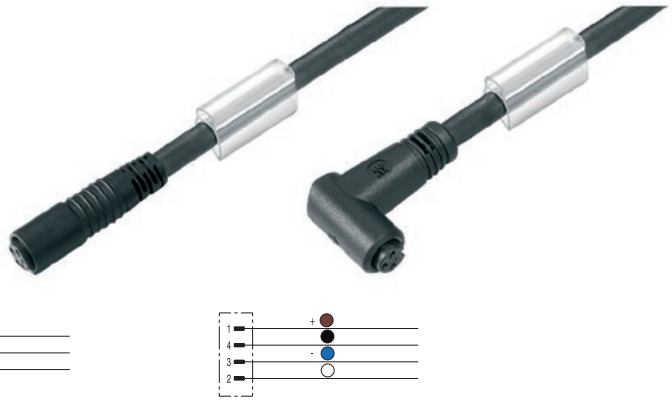
Sensor cables

One end without connector

M8

Snap connection





Ordering data

		3-pole	4-pole	
Female, straight				
PVC	1.5 m	SAIL-M8BGR-3-1.5V **1948710150**	SAIL-M8BGR-4-1.5V **1948730150**	
PUR halogen-free	1.5 m	SAIL-M8BGR-3-1.5U **1827020150**	SAIL-M8BGR-4-1.5U **1948530150**	
Female, angled				
PVC	1.5 m	SAIL-M8BWR-3-1.5V **1948720150**	SAIL-M8BWR-4-1.5V **1948740150**	
PUR halogen-free	1.5 m	SAIL-M8BWR-3-1.5U **1827010150**	SAIL-M8BWR-4-1.5U **1948540150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

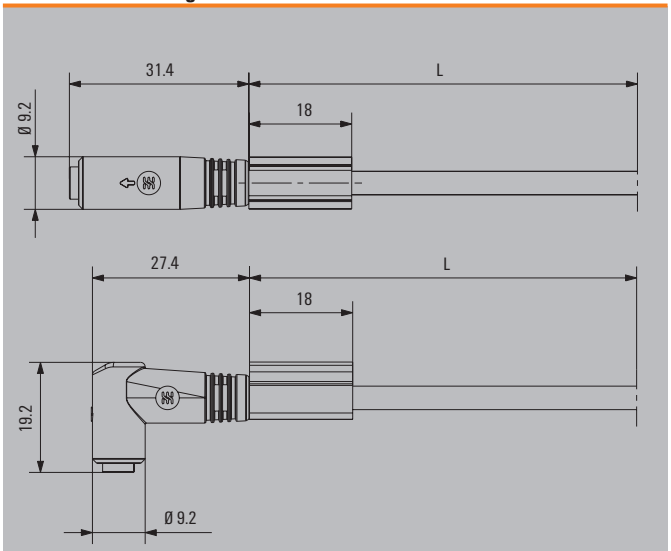
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

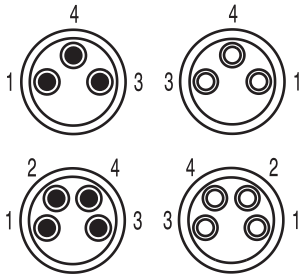
Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

Further technical data of the cables on catalog.

Dimensioned drawing



One end without connector
M8
shielded





Ordering data

		3-pole	4-pole	
Male, straight				
PUR halogen-free	1.5 m	SAIL-M8G-3S1.5U **1906560150**	SAIL-M8G-4S1.5U **1906570150**	
Male, angled				
PUR halogen-free	1.5 m	SAIL-M8W-3S1.5U **1906580150**	SAIL-M8W-4S1.5U **1906590150**	
Female, straight				
PUR halogen-free	1.5 m	SAIL-M8BG-3S1.5U **1906600150**	SAIL-M8BG-4S1.5U **1906610150**	
Female, angled				
PUR halogen-free	1.5 m	SAIL-M8BW-3S1.5U **1906620150**	SAIL-M8BW-4S1.5U **1906630150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

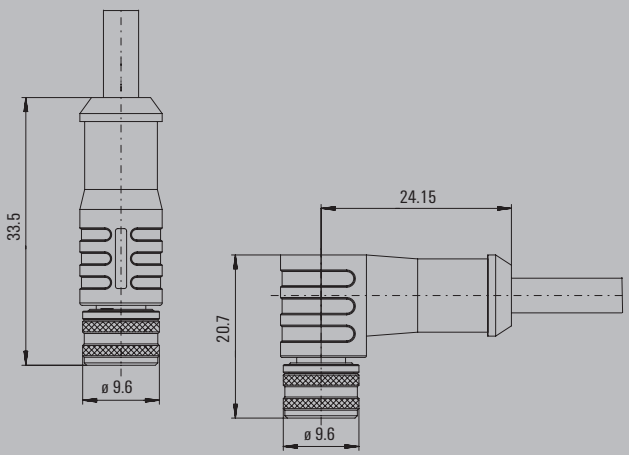
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

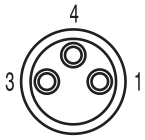
Further technical data of the cables on catalog.

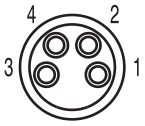
Dimensioned drawing



Sensor cables

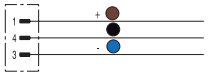
One end without connector
M8
with plastic threaded ring

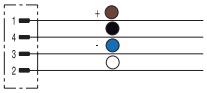




Female







Ordering data

		3-pole	4-pole	
Female, straight				
PUR halogen-free	1.5 m	SAIP-M8BG-3-1.5U **1382970150**	SAIP-M8BG-4-1.5U **1382990150**	
Female, angled				
PUR halogen-free	1.5 m	SAIP-M8BW-3-1.5U **1382980150**	SAIP-M8BW-4-1.5U **1383000150**	
Note				

Standard cable lengths

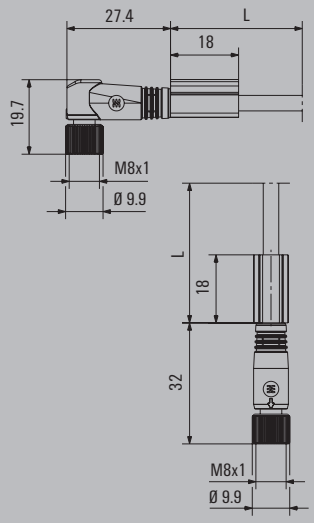
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

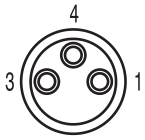
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

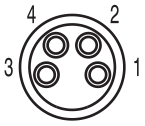
Further technical data of the cables on catalog.

Dimensioned drawing



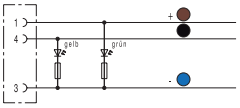
One end without connector
M8 with LED

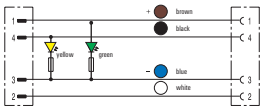


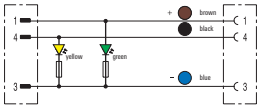


Male Female









Ordering data

Female, angled		2 LEDs 3-pole	2 LEDs 4-pole	
PVC	1.5 m	SAIL-M8BW-3L1.5V **1927350150**	SAIL-M8BW-4L1.5V **1927360150**	
PUR halogen-free	1.5 m	SAIL-M8BW-3L1.5U **9457460150**	SAIL-M8BW-4L1.5U **1906400150**	
PUR halogen-free yellow	1.5 m	SAIL-M8BW-3L1.5UGE **1093210150**	SAIL-M8BW-4L1.5UGE **1093230150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

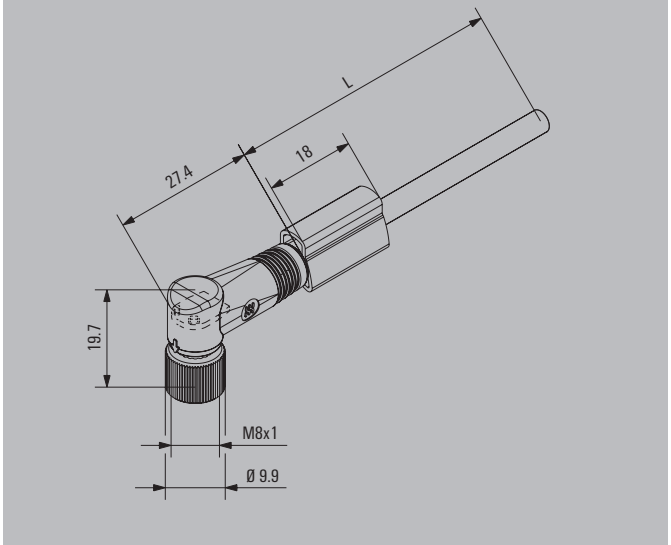
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	CSA; UL

Further technical data of the cables on catalog.

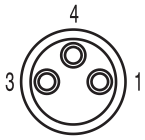
Dimensioned drawing



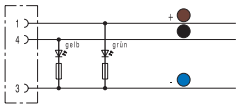
Sensor cables

One end without connector
M8 with LED
with plastic threaded ring





Male Female



Ordering data

Female, angled		3-pole
PUR free from halogens, LED	1.5 m	1383010150
Note	SAIP-M8BW-3L1.5U	

Standard cable lengths

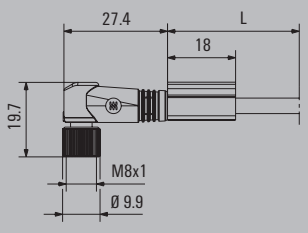
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	UL

Further technical data of the cables on catalog.

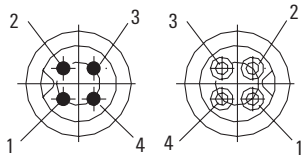
Dimensioned drawing



One end without connector

M5







Ordering data

		3-pole	4-pole
Male, straight			
PUR halogen-free	1.5 m	SAIL-M5G-3P-1.5U **1854060150**	SAIL-M5G-4P-1.5U **1871700150**
Male, angled			
PUR halogen-free	1.5 m	SAIL-M5W-3P-1.5U **1873280150**	SAIL-M5W-4P-1.5U **1873240150**
Female, straight			
PUR halogen-free	1.5 m	SAIL-M5BG-3P-1.5U **1873290150**	SAIL-M5BG-4P-1.5U **1873250150**
Female, angled			
PUR halogen-free	1.5 m	SAIL-M5BW-3P-1.5U **1873260150**	SAIL-M5BW-4P-1.5U **1873270150**
Note		Other versions on request	Other versions on request

Standard cable lengths

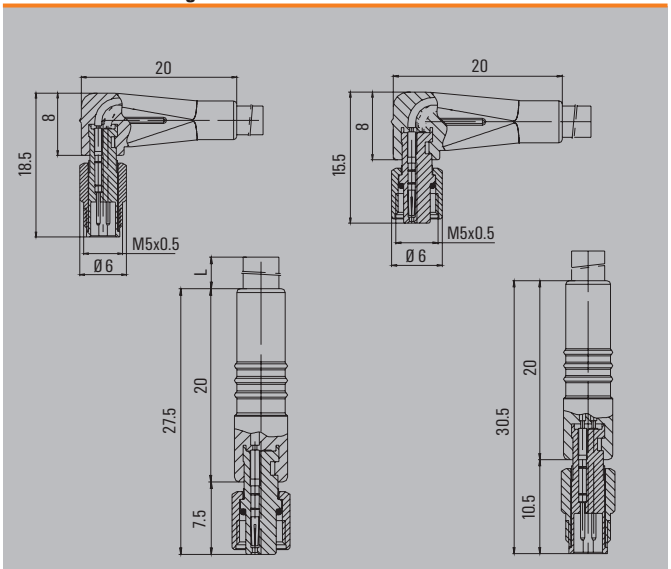
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	1 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing



One end without connector
M16





Female

Ordering data

		12-pole
PUR	1.5 m	SAIL-M16BW-12-1.5U	**1259010150**
Note			

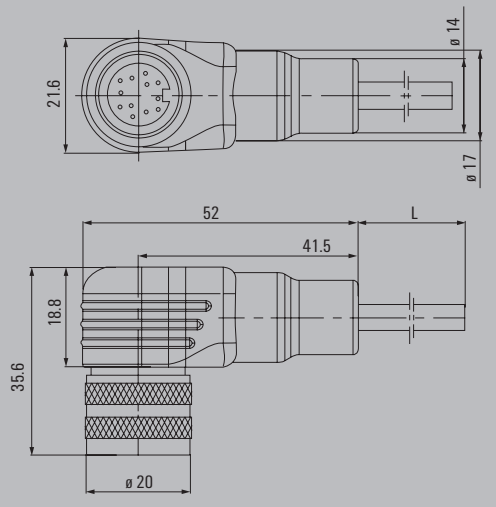
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	3 A
Protection degree	IP67
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25 ... +70 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V
Approvals	EAC

Dimensioned drawing



Connecting cables

M12



M8



M8 Snap connection



Twin cabling



Many applications with sensors require suitable connecting cables. The connecting cables are available in different designs.
The M12/M8 plug-in connectors are available in straight and 90° versions and also with LEDs.

- When plugged in, the M12 connecting cables comply with IP 68 ingress protection class
- The cable sheathing is black and made of polyurethane (PUR or PVC)
- The connecting cables are supplied with two marking sleeves

Corresponding tags TM-I 18 for the marking sleeves can be found in chapter I.

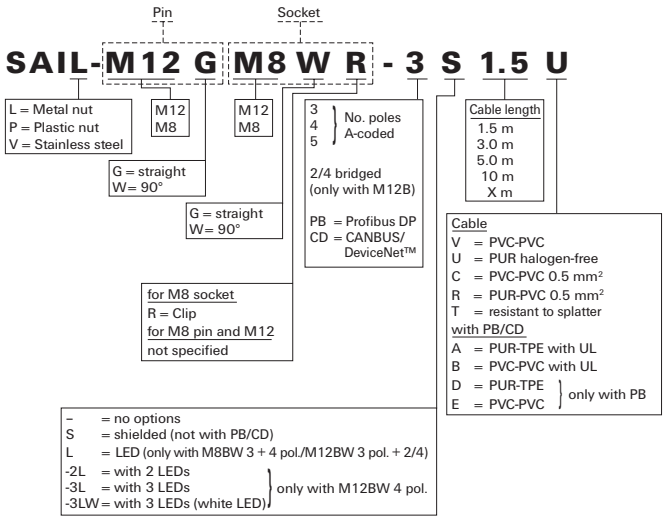
Sensor cables

Weidmüller can supply various cable lengths as indicated in the following table:

Typical cable lengths are:

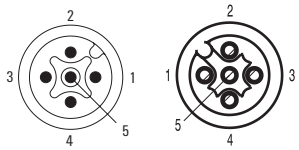
• 1.5 m	• 3.0 m	• 5.0 m	• 10.0 m

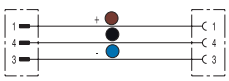
Example of designation

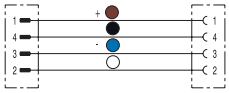


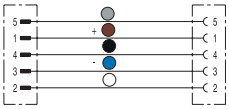
Connecting cables
M12 to M12
A-coded











Ordering data

		3-pole	4-pole	5-pole
Male, straight - Female, straight				
PVC	1.5 m	SAIL-M12GM12G-3-1.5V **1925300150**	SAIL-M12GM12G-4-1.5V **1925310150**	SAIL-M12GM12G-5-1.5V **1925320150**
PUR halogen-free	1.5 m	SAIL-M12GM12G-3-1.5U **9457230150**	SAIL-M12GM12G-4-1.5U **1906300150**	SAIL-M12GM12G-5-1.5U **9457340150**
PUR halogen-free yellow	1.5 m	SAIL-M12GM12G-3-1.5UGE **1093010150**	SAIL-M12GM12G-4-1.5UGE **1093020150**	SAIL-M12GM12G-5-1.5UGE **1093030150**
Resistant to welding beads	1.5 m	SAIL-M12GM12G-3-1.5T **1021710150**	SAIL-M12GM12G-4-1.5T **1021730150**	SAIL-M12GM12G-5-1.5T **1011970150**
Male, straight - Female, angled				
PVC	1.5 m	SAIL-M12GM12W-3-1.5V **1925340150**	SAIL-M12GM12W-4-1.5V **1925350150**	SAIL-M12GM12W-5-1.5V **1925360150**
PUR halogen-free	1.5 m	SAIL-M12GM12W-3-1.5U **9457390150**	SAIL-M12GM12W-4-1.5U **9457310150**	SAIL-M12GM12W-5-1.5U **9457270150**
PUR halogen-free yellow	1.5 m	SAIL-M12GM12W-3-1.5UGE **1093050150**	SAIL-M12GM12W-4-1.5UGE **1093070150**	SAIL-M12GM12W-5-1.5UGE **1093080150**
Resistant to welding beads	1.5 m	SAIL-M12GM12W-3-1.5T **1021720150**	SAIL-M12GM12W-4-1.5T **1021740150**	SAIL-M12GM12W-5-1.5T **1011990150**
Male, angled - Female, angled				
PVC	1.5 m	SAIL-M12WM12W-3-1.5V **1925380150**	SAIL-M12WM12W-4-1.5V **1925390150**	SAIL-M12WM12W-5-1.5V **1925400150**
PUR halogen-free	1.5 m	SAIL-M12WM12W-3-1.5U **1815670150**	SAIL-M12WM12W-4-1.5U **1906310150**	SAIL-M12WM12W-5-1.5U **9457900150**
Note		Other versions on request	Other versions on request	Other versions on request

Standard cable lengths

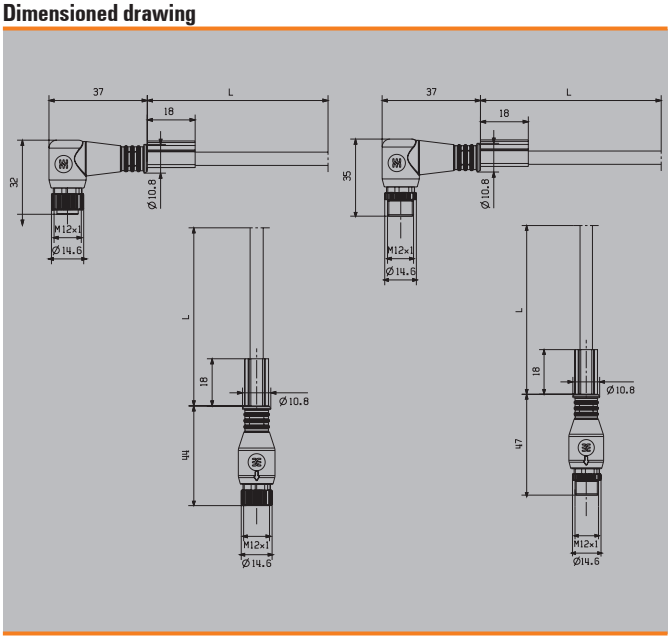
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

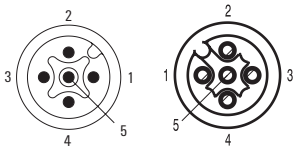
Further technical data of the cables on catalog.

Dimensioned drawing

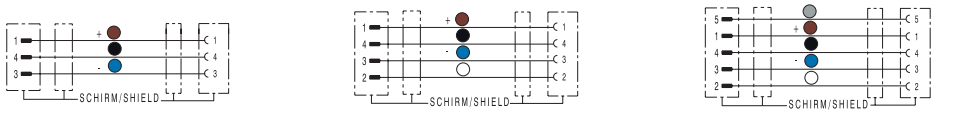


Connecting cables
M12 to M12
A-coded
shielded





Male Female



Ordering data

		3-pole	4-pole	5-pole
Male, straight - Female, straight				
PUR halogen-free	1.5 m	SAIL-M12GM12G-3S1.5U **1058490150**	SAIL-M12GM12G-4S1.5U **1058500150**	SAIL-M12GM12G-5S1.5U **1058510150**
Male, straight - Female, angled				
PUR halogen-free	1.5 m	SAIL-M12GM12W-3S1.5U **1059470150**	SAIL-M12GM12W-4S1.5U **1059480150**	SAIL-M12GM12W-5S1.5U **1059540150**
Male, angled - Female, angled				
PUR halogen-free	1.5 m	SAIL-M12WM12W-3S1.5U **1059720150**	SAIL-M12WM12W-4S1.5U **1059730150**	SAIL-M12WM12W-5S1.5U **1059740150**
Note		Other versions on request	Other versions on request	Other versions on request

Standard cable lengths

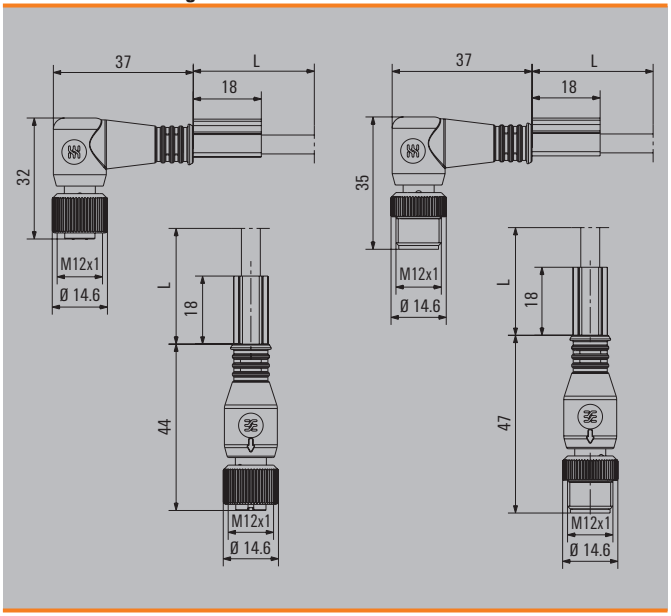
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus

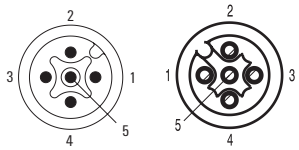
Further technical data of the cables on catalog.

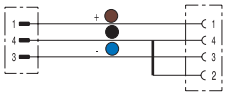
Dimensioned drawing



Connecting cables
M12 to M12
A-coded
Bridge between pin 2 and 4







Ordering data

		3-pole
Male, straight - Female, straight		
PVC	1.5 m	SAIL-M12GM12G-2/4-1.5V **1925330150**
PUR halogen-free	1.5 m	SAIL-M12GM12G-2/4-1.5U **9456990150**
PUR halogen-free yellow	1.5 m	SAIL-M12GM12G-2/4-1.5UGE **1093000150**
Male, straight - Female, angled		
PVC	1.5 m	SAIL-M12GM12W-2/4-1.5V **1925370150**
PUR halogen-free	1.5 m	SAIL-M12GM12W-2/4-1.5U **9457890150**
PUR halogen-free yellow	1.5 m	SAIL-M12GM12W-2/4-1.5UGE **1093040150**
Note		Other versions on request

Standard cable lengths

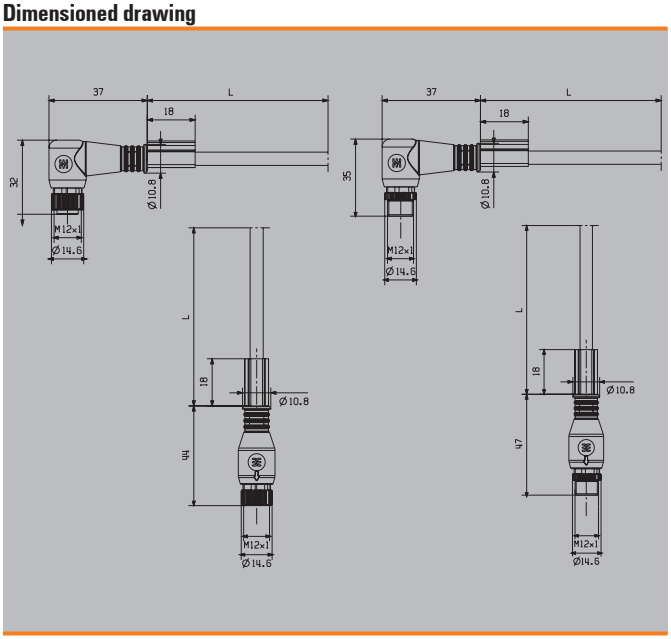
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

Further technical data of the cables on catalog.

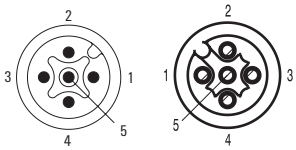
Dimensioned drawing

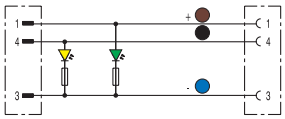


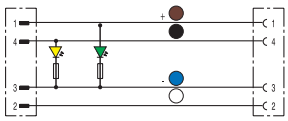
Sensor cables

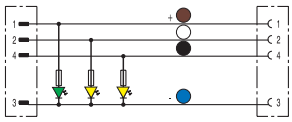
Connecting cables
M12 to M12 with LED
A-coded











Ordering data

Male, straight - Female, angled		2 LEDs	3-pole	2 LEDs	4-pole	3 LEDs	4-pole
PVC	1.5 m	SAIL-M12GM12W-3L1.5V	1925410150	SAIL-M12GM12W-4-2L1.5V	1925420150	SAIL-M12GM12W-4-3L1.5V	1963930150
PUR halogen-free	1.5 m	SAIL-M12GM12W-3L1.5U	9457790150	SAIL-M12GM12W-4-2L1.5U	1906410150	SAIL-M12GM12W-4-3L1.5U	1963910150
PUR halogen-free yellow	1.5 m					SAIL-M12GM12W-4-3LW1.5UGE	1093060150
Resistant to welding beads	1.5 m	SAIL-M12GM12W-3L1.5T	1004320150	SAIL-M12GM12W-4-2L1.5T	1004310150	SAIL-M12GM12W-4-3LW1.5T	1020930150
Note		Other versions on request		Other versions on request		Other versions on request	

Standard cable lengths

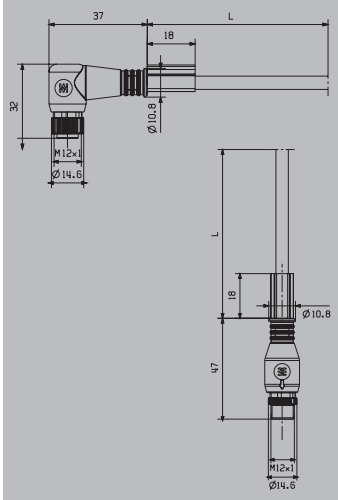
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

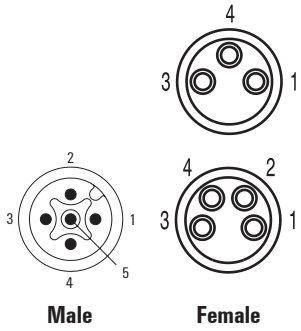
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	UL

Further technical data of the cables on catalog.

Dimensioned drawing



Connecting cables
M12 to M8





Ordering data

		3-pole	4-pole	
Male, straight - Female, straight				
PVC	1.5 m	SAIL-M12GM8G-3-1.5V **1938170150**	SAIL-M12GM8G-4-1.5V **1938200150**	
PUR halogen-free	1.5 m	SAIL-M12GM8G-3-1.5U **9457770150**	SAIL-M12GM8G-4-1.5U **9456660150**	
Male, straight - Female, angled				
PVC	1.5 m	SAIL-M12GM8W-3-1.5V **1938180150**	SAIL-M12GM8W-4-1.5V **1938210150**	
PUR halogen-free	1.5 m	SAIL-M12GM8W-3-1.5U **9457980150**	SAIL-M12GM8W-4-1.5U **9456670150**	
Male, angled - Female, angled				
PVC	1.5 m	SAIL-M12WM8W-3-1.5V **1938190150**	SAIL-M12WM8W-4-1.5V **1938220150**	
PUR halogen-free	1.5 m	SAIL-M12WM8W-3-1.5U **1906330150**	SAIL-M12WM8W-4-1.5U **1906340150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

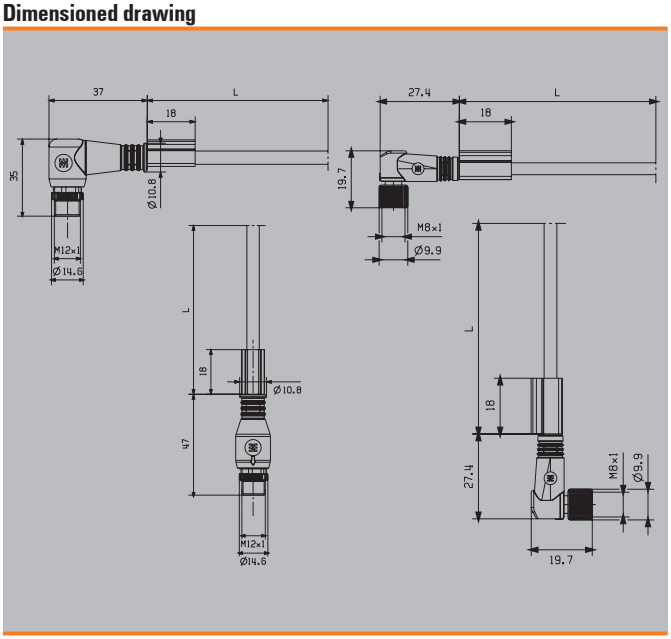
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
AF size	12
Approvals	EAC

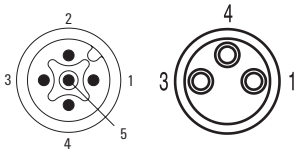
Further technical data of the cables on catalog.

Dimensioned drawing

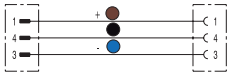


Connecting cables
M12 to M8
snap-on connection





Male Female



Ordering data

		3-pole
Male, straight - Female, straight		
PUR halogen-free	1.5 m	SAIL-M12GM8GR-3-1.5U **1984530150**
Male, straight - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12GM8WR-3-1.5U **9457570150**
PUR halogen-free yellow	1.5 m	SAIL-M12GM8WR-3-1.5UGE **1093150150**
Note		Other versions on request

Standard cable lengths

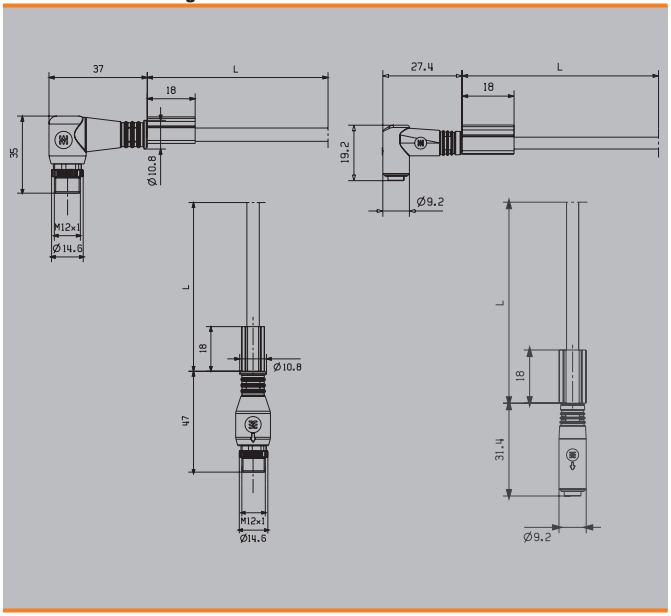
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

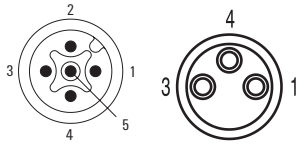
Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing

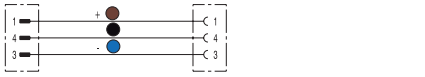


Connecting cable
M12 to M8
with plastic threaded ring



Male

Female





Ordering data

Male, straight - Female, angled		3-pole
PUR halogen-free	1.5 m	SAIP-M12GM8W-3-1.5U **1220620150**
Note		

Standard cable lengths

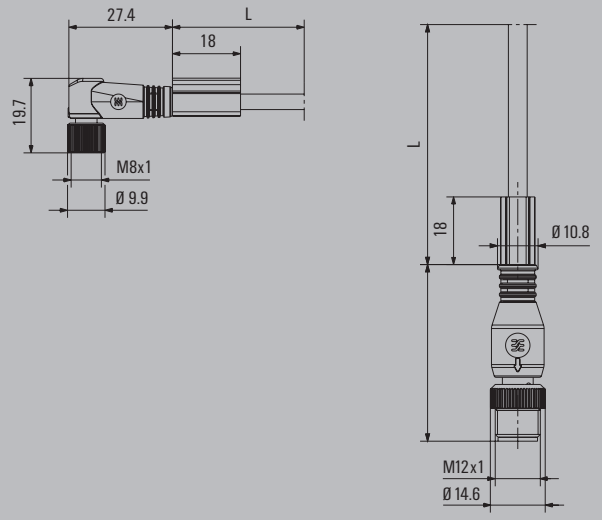
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	EAC

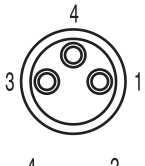
Further technical data of the cables on catalog.

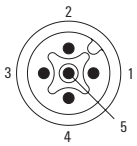
Dimensioned drawing



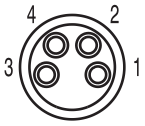
Sensor cables

Connecting cables
M12 to M8 with LED



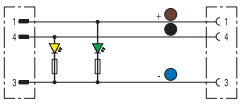


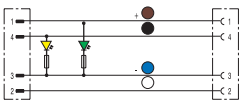
Male



Female







Ordering data

Male, straight - Female, angled		2 LEDs	3-pole	2 LEDs	4-pole		
PVC	1.5 m	SAIL-M12GM8W-3L1.5V	1962290150	SAIL-M12GM8W-4L1.5V	1962300150		
PUR halogen-free	1.5 m	SAIL-M12GM8W-3L1.5U	9457760150	SAIL-M12GM8W-4L1.5U	1906430150		
PUR halogen-free yellow	1.5 m	SAIL-M12GM8W-3L1.5UGE	1093110150	SAIL-M12GM8W-4L1.5UGE	1093130150		
Note		Other versions on request		Other versions on request			

Standard cable lengths

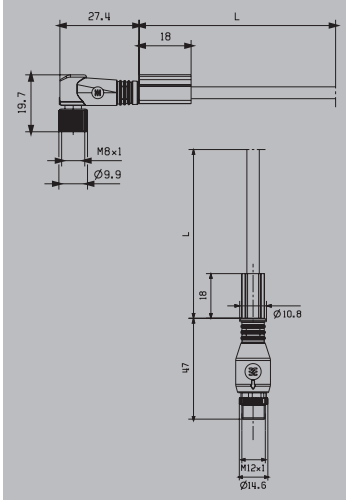
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

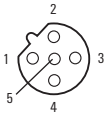
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
AF size	12
Approvals	EAC

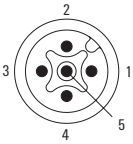
Further technical data of the cables on catalog.

Dimensioned drawing

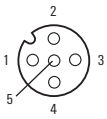


Connecting cables
M12 to USB
A-coded
B-coded
shielded





Male



Female







Ordering data

Socket, straight - USB		5-pole	5-pole	5-pole
PUR halogen-free, B-coded	1.5 m			
PUR halogen-free, A-coded	3.0 m	SAIL-M12BG-USB-3.0U **1288820300**	SAIL-M12BG-B-USB-1.5U **1962800150**	
Male, straight - USB				
PUR halogen-free, A-coded	3.0 m			SAIL-M12G-USB-3.0U **1268520000**
Note				

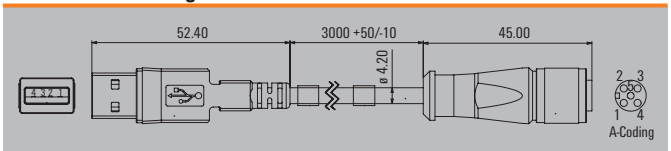
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	1 A
Protection degree	IP67
Core cross-section	
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Dimensioned drawing



1288820300 + 1962800150

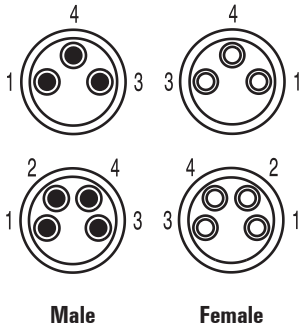
USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	+ 5V
Pin 2	- Data	Pin 2	Data-N
Pin 3	+ Data	Pin 3	Ground
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Shield

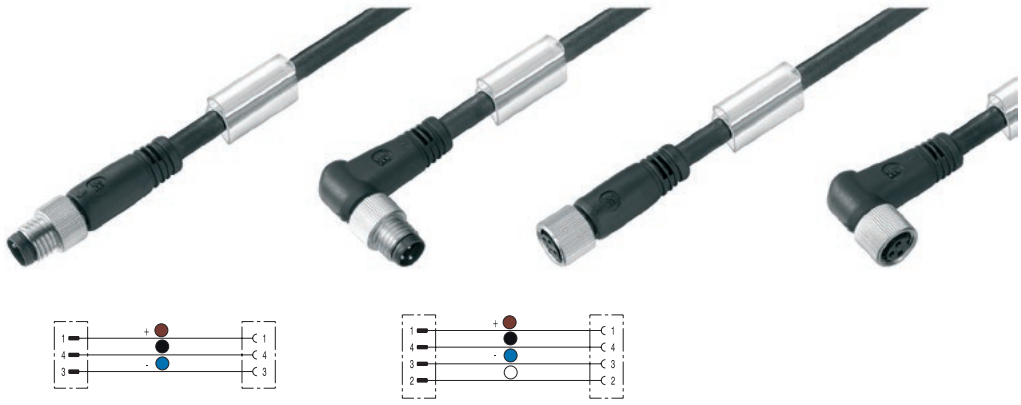
1268520000

USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	Data-N
Pin 2	- Data	Pin 2	+ 5V
Pin 3	+ Data	Pin 3	Not connected
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Ground

Sensor cables

Connecting cables
M8 to M8





Ordering data

		3-pole	4-pole	
Male, straight - Female, straight				
PVC	1.5 m	SAIL-M8GM8G-3-1.5V **1927150150**	SAIL-M8GM8G-4-1.5V **1927160150**	
PUR halogen-free	1.5 m	SAIL-M8GM8G-3-1.5U **1824570150**	SAIL-M8GM8G-4-1.5U **1880470150**	
PUR halogen-free yellow	1.5 m	SAIL-M8GM8G-3-1.5UGE **1104470150**	SAIL-M8GM8G-4-1.5UGE **1469360150**	
Male, straight - Female, angled				
PVC	1.5 m	SAIL-M8GM8W-3-1.5V **1927170150**	SAIL-M8GM8W-4-1.5V **1927180150**	
PUR halogen-free	1.5 m	SAIL-M8GM8W-3-1.5U **1824580150**	SAIL-M8GM8W-4-1.5U **1857660150**	
Male, angled - Female, angled				
PVC	1.5 m	SAIL-M8WM8W-3-1.5V **1927210150**	SAIL-M8WM8W-4-1.5V **1927220150**	
PUR halogen-free	1.5 m	SAIL-M8WM8W-3-1.5U **1857670150**	SAIL-M8WM8W-4-1.5U **1857680150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

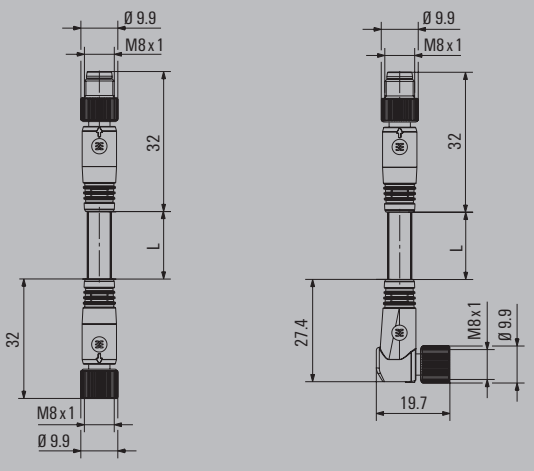
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

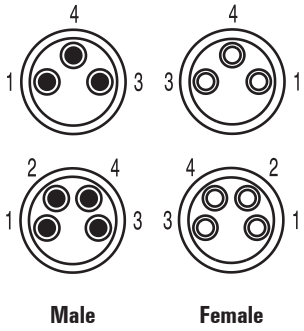
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

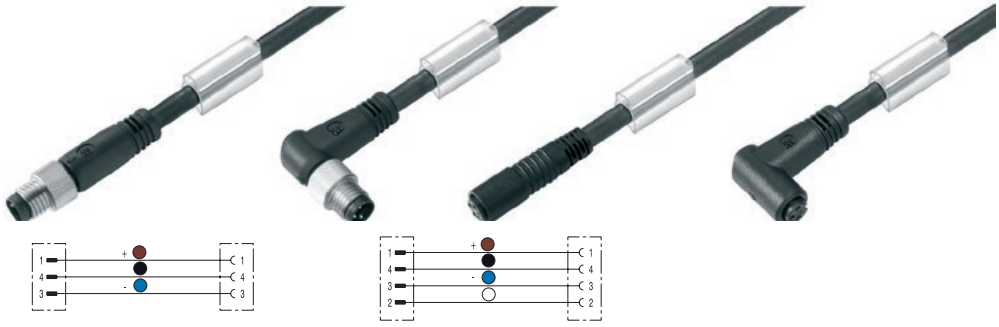
Further technical data of the cables on catalog.

Dimensioned drawing



Connecting cables
M8 to M8
snap-on connection





Ordering data

		3-pole	4-pole	
Male, straight - Female, straight				
PVC	1.5 m	SAIL-M8GM8GR-3-1.5V **1948650150**	SAIL-M8GM8GR-4-1.5V **1948680150**	
PUR halogen-free	1.5 m	SAIL-M8GM8GR-3-1.5U **1948470150**	SAIL-M8GM8GR-4-1.5U **1948500150**	
Male, straight - Female, angled				
PVC	1.5 m	SAIL-M8GM8WR-3-1.5V **1948660150**	SAIL-M8GM8WR-4-1.5V **1948690150**	
PUR halogen-free	1.5 m	SAIL-M8GM8WR-3-1.5U **1948480150**	SAIL-M8GM8WR-4-1.5U **1948510150**	
Male, angled - Female, angled				
PVC	1.5 m	SAIL-M8WM8WR-3-1.5V **1948670150**	SAIL-M8WM8WR-4-1.5V **1948700150**	
PUR halogen-free	1.5 m	SAIL-M8WM8WR-3-1.5U **1948490150**	SAIL-M8WM8WR-4-1.5U **1948520150**	
Note		Other versions on request	Other versions on request	

Standard cable lengths

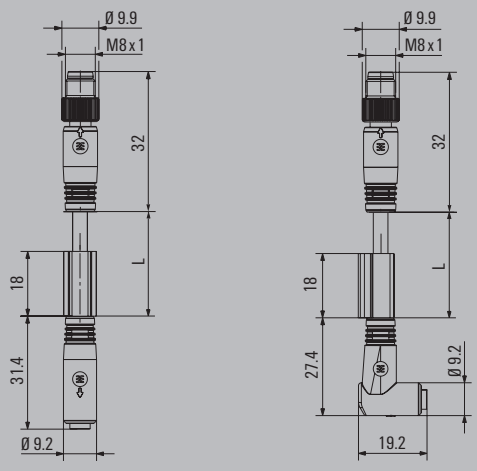
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus

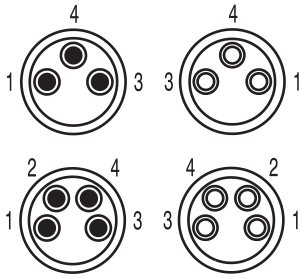
Further technical data of the cables on catalog.

Dimensioned drawing

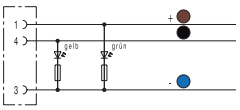


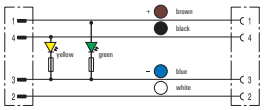
Sensor cables

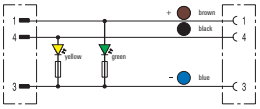
Connecting cables
M8 to M8 with LED











Ordering data

Male, straight - Female, angled		2 LEDs	3-pole
PVC	1.5 m	SAIL-M8GM8W-3L1.5V	1927190150
PUR halogen-free	1.5 m	SAIL-M8GM8W-3L1.5U	1877250150
Male straight - Female straight			
	1.0 m		
Note		Other versions on request	

		2 LEDs	4-pole
		SAIL-M8GM8W-4L1.5V	1927200150
		SAIL-M8GM8W-4L1.5U	1906450150
		Other versions on request	

			3-pole
		SAIL-M8GM8G-3L1.0U	1550230100
		Other versions on request	

Standard cable lengths

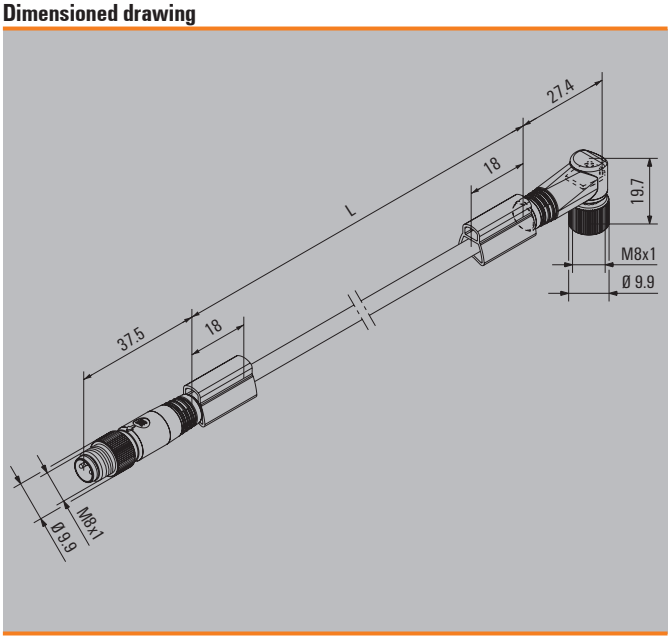
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M8: 0.5 - 0.6 Nm
AF size	12
Approvals	cULus

Further technical data of the cables on catalog.

Dimensioned drawing



Twin sensor cables with three plug-in connectors: M12/M8

Twin sensor cables







In general, two sensor cables can be fed with an M12 connector to the distributor. A wide variety of wiring arrangements are possible with these cables. All M12 and M8 connections can be implemented.

Weidmüller has all the necessary components available. With mechanical engineering, this type of application is an exception.

4-pole connection

In the SAI distributor, the 4 pole socket is fitted with pins 1, 3, 4 and 5. The 4 pole SAI plug is fitted with pins 1, 2, 3 and 4. This corresponds to market standards.

Special care must be taken when wiring combinations of 4-pole plugs and distributors.

Designation

Twin plug
Bifurcation open for "1" and "2" ends

One designation is no longer necessary when dealing with identical cable lengths.

SAIL-ZW	-	M8	-	3.0	/	1.5	U

- SAIL-ZW: L = Metal nut, P = Plastic nut
- M8: M12, M8
- Bifurcation 1 – Cable length: 1.5 m, 3.0 m, 5.0 m, 10 m, X m
- Bifurcation 2 – Cable length: 1.5 m, 3.0 m, 5.0 m, 10 m, X m
- U: Cable – V = PVC-PVC, U = PUR halogen-free, T = resistant to splatter

Twin plug
Connecting cable

SAIL-ZW-	M12BW	-	2/4	-	1.5	U

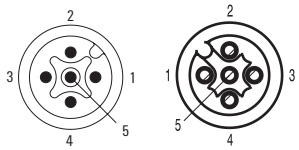
Bifurcation 1 and 2 identical

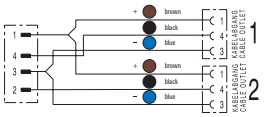
Bifurcation 1 and 2 identical length

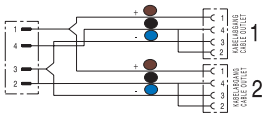
- SAIL-ZW: L = Metal nut, P = Plastic nut
- M12BW: M12, M8
- M12BW: B = Socket
- M12BW: G = straight, W = 90°
- 2/4: with M8BG / M8BW – 3- = 3-pole
- 2/4: with M12BG / M12BW – 3- = 3-pole, 2/4- = 2/4 bridged
- 2/4: with M8BW LED – 3L = LED
- 2/4: with M12BW LED – 3L = 3-pole LED, 2/4L = 2/4 bridged LED
- 1.5: Cable length – 1.5 m, 3.0 m, 5.0 m, 10 m, X m
- U: Cable – V = PVC-PVC, U = PUR halogen-free, T = resistant to splatter

Connecting cable
M12 to M12 twin cabling
Bridge between pin 2 and 4









Ordering data

		3-pole	4-pole	
Male straight - 2 females straight				
PUR halogen-free	1.5 m	SAIL-ZW-M12BG-3-1.5U **1005460150**	SAIL-ZW-M12BG-2/4-1.5U **1812550150**	
Male straight - 2 females angled				
PUR halogen-free	1.5 m	SAIL-ZW-M12BW-3-1.5U **1005270150**	SAIL-ZW-M12BW-2/4-1.5U **1964280150**	
Note				

Standard cable lengths

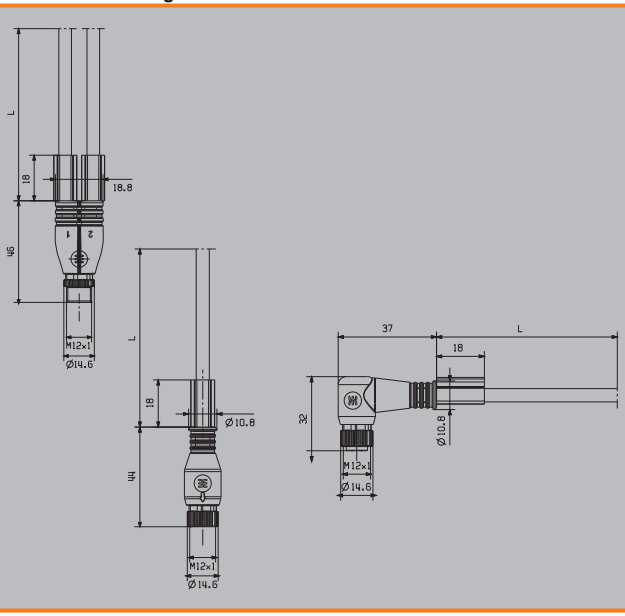
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	CSA; cULus

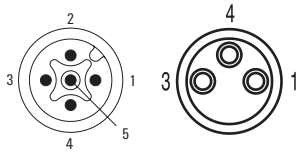
Further technical data of the cables on catalog.

Dimensioned drawing



Sensor cables

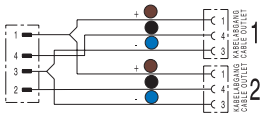
Connecting cable
M12 to M8 twin cabling



Male

Female





Ordering data

		3-pole
Male straight - 2 females straight		
PUR halogen-free	1.5 m	SAIL-ZW-M8BG-3-1.5U **9457490150**
PUR halogen-free yellow	1.5 m	SAIL-ZW-M8BG-3-1.5UGE **1093250150**
Male straight - 2 females angled		
PUR halogen-free	1.5 m	SAIL-ZW-M8BW-3-1.5U **1964300150**
PUR halogen-free yellow	1.5 m	SAIL-ZW-M8BW-3-1.5UGE **1093260150**
Note		Other versions on request

Standard cable lengths

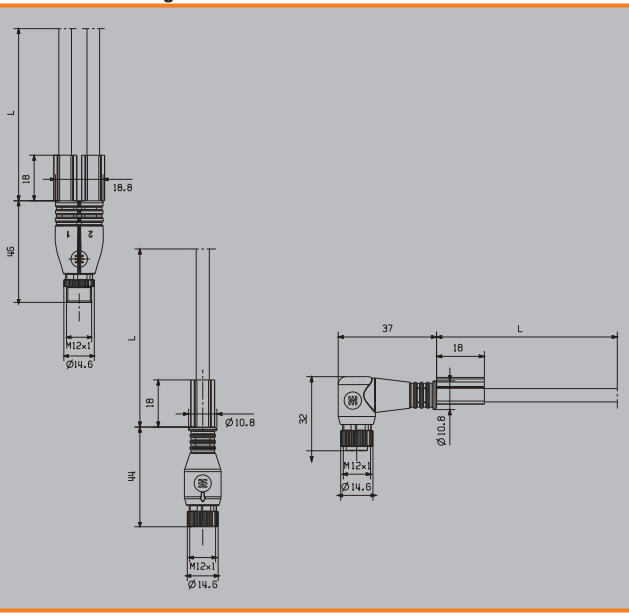
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
AF size	12
Approvals	EAC

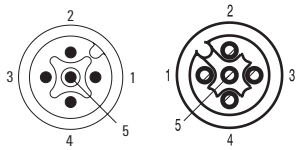
Further technical data of the cables on catalog.

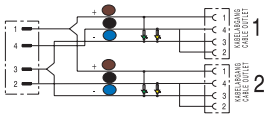
Dimensioned drawing

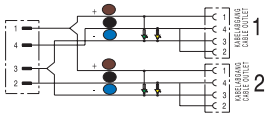


Connecting cable
M12 to M12 twin cabling with LED
Bridge between pin 2 and 4









Ordering data

Male straight - 2 females angled		2 LEDs	3-pole	2 LEDs	3-pole		
PUR halogen-free	1.5 m	SAIL-ZW-M12BW-2/4L1.5U	1964290150	SAIL-ZW-M12BW-3L1.5U	1912110150		
Note							

Standard cable lengths

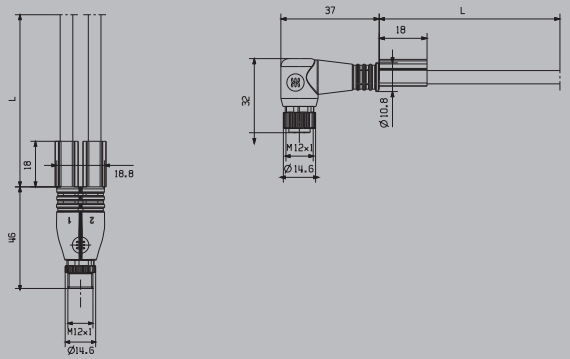
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

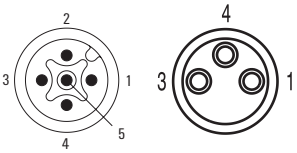
Further technical data of the cables on catalog.

Dimensioned drawing

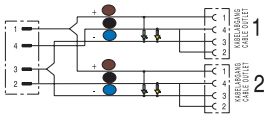


Connecting cable
M12 to M8 twin cabling with LED





Male Female



Ordering data

Male straight - 2 females angled		2 LEDs	3-pole
PUR halogen-free	1.5 m	SAIL-ZW-M8BW-3L1.5U	9457410150
Note		Other versions on request	

Standard cable lengths

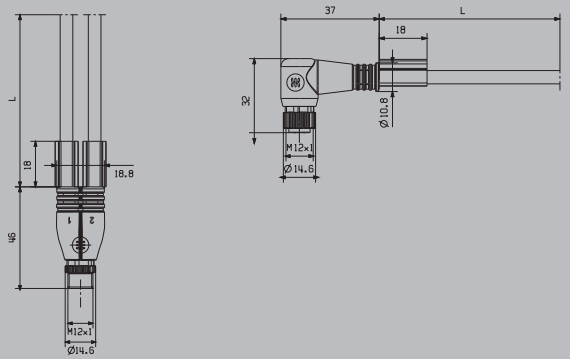
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Tightening torque	M8: 0.5 - 0.6 Nm
AF size	12
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing

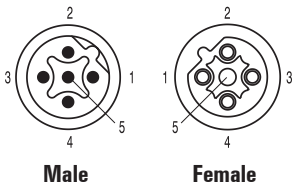


B-coded M12 cables



Connector coding is very important to avoid the potential risk of damage due to connectors being incorrectly plugged together. This risk is particularly high when you need to plug in differing voltages. For example, it is not unusual to connect 110 or 230 V with a M12 plug-in connector. However if a 24 V electric potential is connected with a 110 or 230 V line, it will inevitably lead to destructive results. B-coding has been introduced for such cases. B-coded connectors are shaped so that they can not be fitted together unless extreme force is used. This coding makes it safe to use the standard M12 connector system in a single machine for different voltages which may exceeding 24 V. For the SAI Active Universal System, the power plug is A-coded since it only provides 24 V. The Profibus DP also takes advantage of this coding scheme. It is currently the only bus system using B-coded M12 plugs for IP 67-protected connections. In this case, special approved bulk stock cable is used instead of the power cables.

One end without connector
M12
B-coded





Ordering data

		3-pole	4-pole	5-pole
Male, straight				
PUR halogen-free	1.5 m	SAIL-M12G-3B-1.5U **1057770150**	SAIL-M12G-4B-1.5U **1057780150**	SAIL-M12G-5B-1.5U **1057790150**
Male, angled				
PUR halogen-free	1.5 m	SAIL-M12W-3B-1.5U **1057800150**	SAIL-M12W-4B-1.5U **1057810150**	SAIL-M12W-5B-1.5U **1057820150**
Female, straight				
PUR halogen-free	1.5 m	SAIL-M12BG-3B-1.5U **1057740150**	SAIL-M12BG-4B-1.5U **1057750150**	SAIL-M12BG-5B-1.5U **1061880150**
Female, angled				
PUR halogen-free	1.5 m	SAIL-M12BW-3B-1.5U **1061890150**	SAIL-M12BW-4B-1.5U **1061900150**	SAIL-M12BW-5B-1.5U **1057760150**
Note				

Standard cable lengths

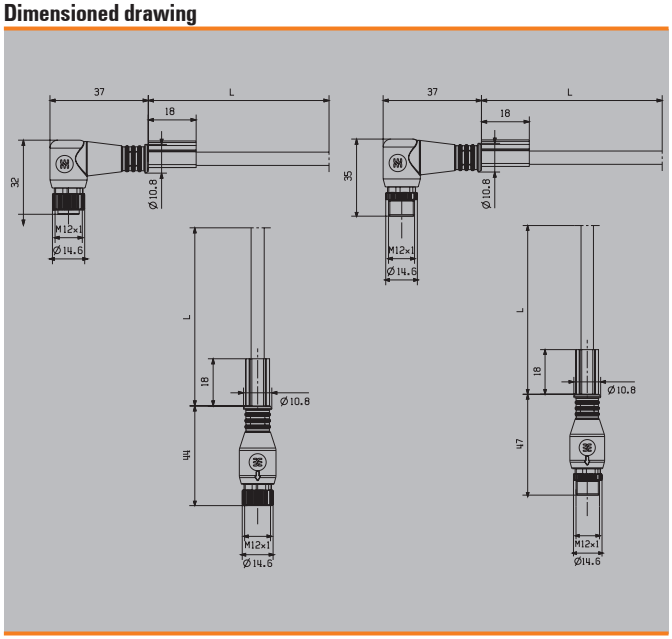
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

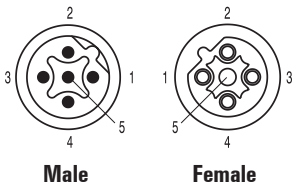
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to M12
B-coded





Ordering data

		3-pole	4-pole	5-pole
Male, straight - Female, straight				
PUR halogen-free	1.5 m	SAIL-M12GM12G-3B-1.5U **1057830150**	SAIL-M12GM12G-4B-1.5U **1057840150**	SAIL-M12GM12G-5B-1.5U **1057850150**
Male, straight - Female, angled				
PUR halogen-free	1.5 m	SAIL-M12GM12W-3B-1.5U **1057900150**	SAIL-M12GM12W-4B-1.5U **1057910150**	SAIL-M12GM12W-5B-1.5U **1057920150**
Male, angled - Female, angled				
PUR halogen-free	1.5 m	SAIL-M12WM12W-3B-1.5U **1061910150**	SAIL-M12WM12W-4B-1.5U **1061920150**	SAIL-M12WM12W-5B-1.5U **1061930150**
Male, angled - female, straight				
PUR halogen-free	1.5 m	SAIL-M12WM12G-3B-1.5U **1057870150**	SAIL-M12WM12G-4B-1.5U **1057880150**	SAIL-M12WM12G-5B-1.5U **1057890150**
Note		Other versions on request	Other versions on request	Other versions on request

Standard cable lengths

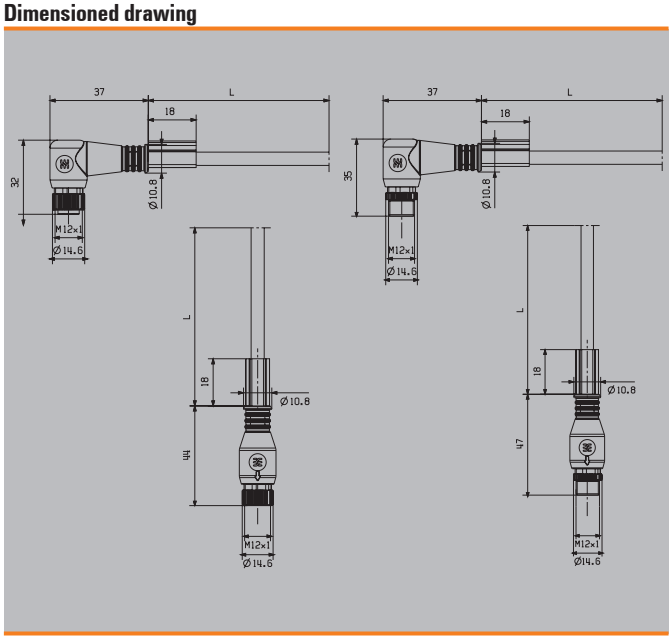
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Tightening torque	M12: 0.8 - 1.2 Nm
AF size	12
Approvals	cULus

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



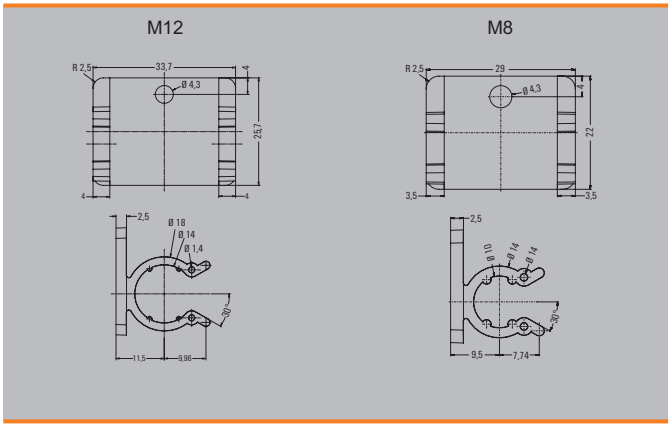
SAI clip



Ordering data

Type	Cable glands	Qty.	Order No.
SAI-M12-CLIP	M 12	10	**1362750000**
SAI-M8-CLIP	M 8	10	**1363800000**

Dimensioned drawing



Valve plug, ISO 4400





Machine builders frequently need different cable lengths for valve plugs. Valve plugs with free cable ends can be used to adjust the cable exactly to the lengths required.

Weidmüller can also supply valve plugs as connecting cables with M12 plugs.

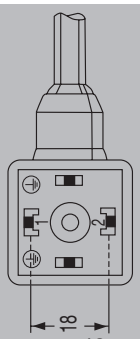
The status of the valve plug is shown by an LED. Every valve plug is fitted with a protective circuit.

The Weidmüller range includes valve plugs of type A, B and C to DIN and industry standards.

Weidmüller plugs comply with IP 67 ingress protection class when plugged in.

The outgoing direction is also crucial. Weidmüller can supply 0° versions, i.e. the outgoing direction of the cable is at the PE contact.

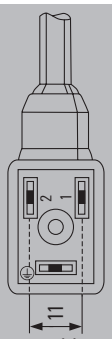
Valve plug Type A



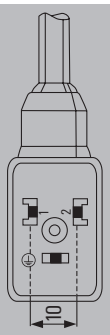
Contact gap 18 mm

Type: VSA

Valve plug Type B

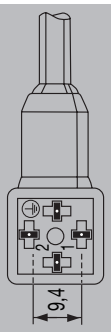


Contact gap 11 mm
Industry standard
Type: VSB

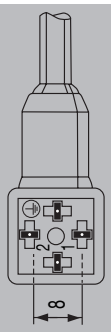


Contact gap 10 mm
to DIN 43650 (ISO 6952)
Type: VSBD

Valve plug Type C



Contact gap 9.4 mm
Industry standard
Type: VSC



Contact gap 8 mm
to DIN 43650 (ISO 6952)
Type: VSCD

Example of designation

Valve plug
Connector at one end only

SAIL-VSBD - 1.5 U

Valve plug	Cable length	Cable
VSA VSB VSBD VSC VSCD	1.5 m 3.0 m 5.0 m 10 m X m	V = PVC-PVC U = PUR-Halogen-free

Valve plug
Connecting cable

Socket Pin

SAIL-VSBD - M8W 1.5 U

Valve plug	M12 M8	Cable length	Cable
VSA VSB VSBD VSC VSCD	G = straight W = 90°	1.5 m 3.0 m 5.0 m 10 m X m	V = PVC-PVC U = PUR-Halogen-free

Design A / M12

- Zener diode
- Pressure switch



Ordering data

	A
M12 Male straight - valve plug	
1.5 m	SAIL-VSA-M12G-1.5U **9457040000**
M12 Male angled - valve plug	
1.5 m	SAIL-VSA-M12W-1.5U **1857690150**
Valve plug - open cable end	
1.5 m	SAIL-VSA-1.5U **9457710150**
Note	Other versions on request

Pressure switch	A
SAIL-VSA-DS-M12G-1.5U	**1316550150**
SAIL-VSA-DS-1.5U	**1896990150**

Standard cable lengths

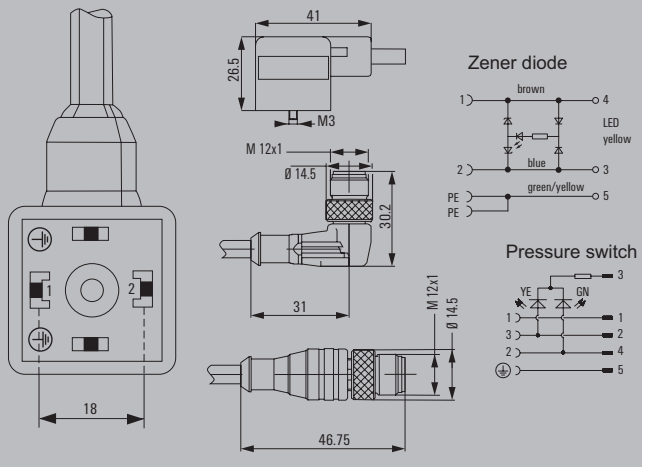
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design A = M3
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing



Valve cables

Design type A

Varistor



Ordering data

Open cable end - valve plug		24 V	230 V	
230 V AC/DC	1.5 m		SAIL-VSAV-230V-1.5U	1549100150
24 V AC/DC	3.0 m	SAIL-VSAV-3.0U	1525690300	
Note		Other versions on request	Other versions on request	

Standard cable lengths

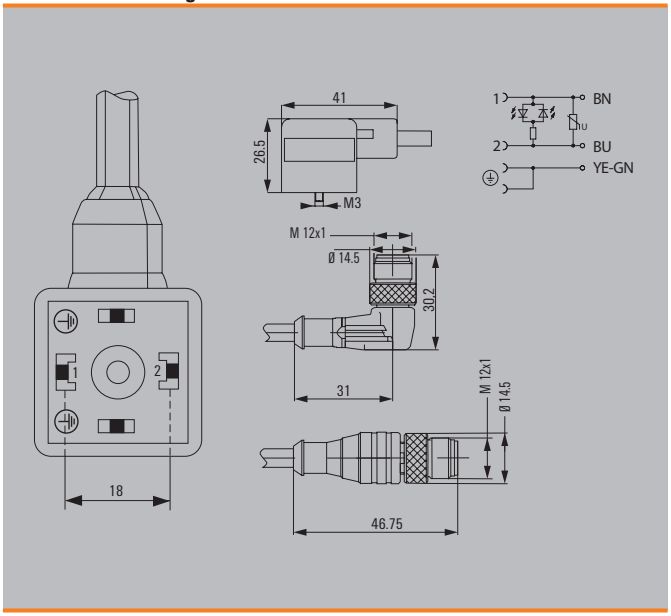
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	
Fixing screw	Design A = M3
Approvals	

Further technical data of the cables on catalog.

Dimensioned drawing



Design B/BD / M12

B = industry standard
BD = DIN standard
Zener diode



Ordering data

	B	BD	
Open cable end - valve plug			
1.5 m	SAIL-VSB-1.5U **9457930150**	SAIL-VSBD-1.5U **9456070150**	
Male straight - valve plug			
1.5 m	SAIL-VSB-M12G-1.5U **9457680150**	SAIL-VSBD-M12G-1.5U **9457780150**	
Male angled - valve plug			
1.5 m	SAIL-VSB-M12W-1.5U **1857700150**	SAIL-VSBD-M12W-1.5U **1857710150**	
Note	Other versions on request	Other versions on request	

Standard cable lengths

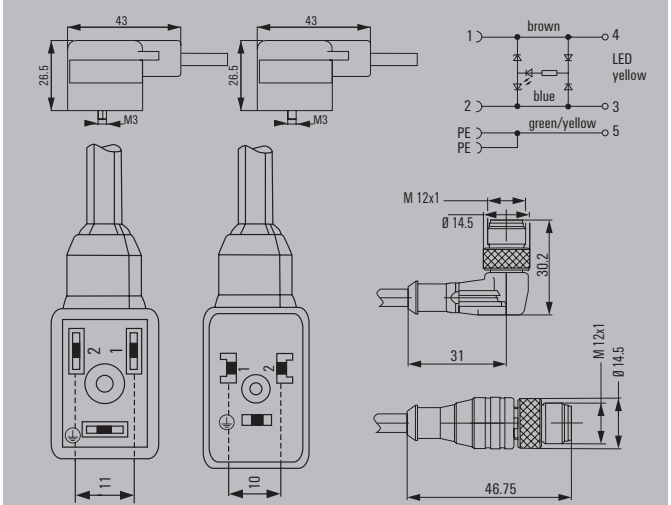
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design B/BD = M3
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing



Valve cables

Design C/CD / M12

C = industry standard
CD = DIN standard
Zener diode



Ordering data

	C	CD	
Open cable end - valve plug			
1.5 m	SAIL-VSC-1.5U **9457920150**	SAIL-VSCD-1.5U **9456240150**	
Male straight - valve plug			
1.5 m	SAIL-VSC-M12G-1.5U **9457400150**	SAIL-VSCD-M12G-1.5U **9456170150**	
Male angled - valve plug			
1.5 m	SAIL-VSC-M12W-1.5U **1857720150**	SAIL-VSCD-M12W-1.5U **1857730150**	
Note	Other versions on request	Other versions on request	

Standard cable lengths

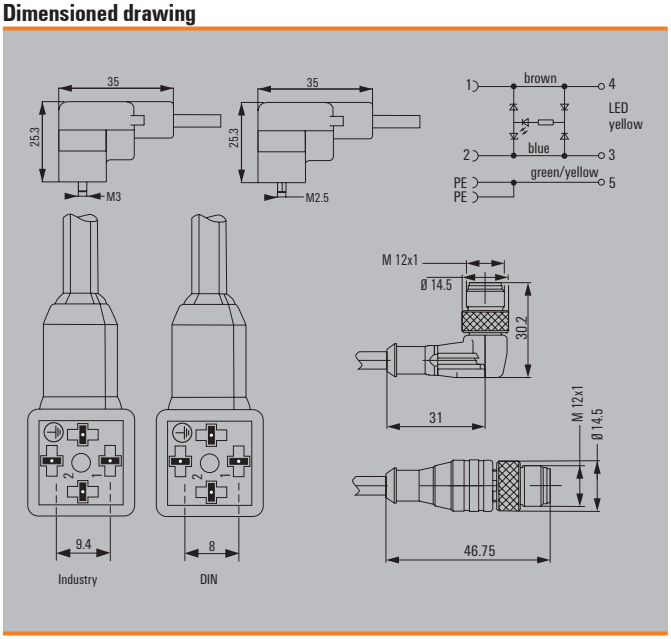
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design C = M3, Design CD = M2.5
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing



Design A

Suppressor diode suitable for IDC connectors and protective flexible conduit connection



Ordering data

Open cable end - valve plug		A
1.5 m	SAIL-VSA-1.5U(0.5)	1845120150
Note	Supplied without protective hose	

Standard cable lengths

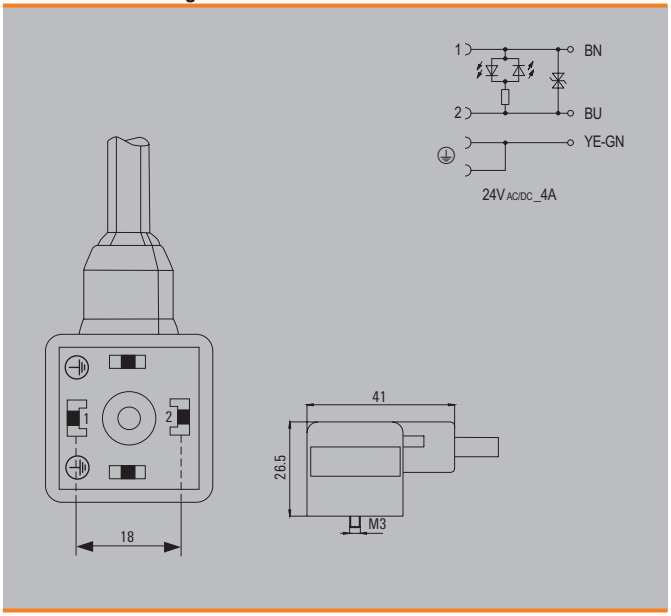
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design A = M3
Approvals	EAC

L in the drawing is the cable length

Dimensioned drawing



Valve cables

Design B/BD

B = industry standard
BD = DIN standard

Suppressor diode suitable for IDC connectors and protective flexible conduit connection



Ordering data

Open cable end - valve plug		B		BD	
1.5 m	SAIL-VSB-180-1.5U(0.5)	1845140150	SAIL-VSBD-180-1.5U(0.5)	1845160150	
Note	Supplied without protective hose		Supplied without protective hose		

Standard cable lengths

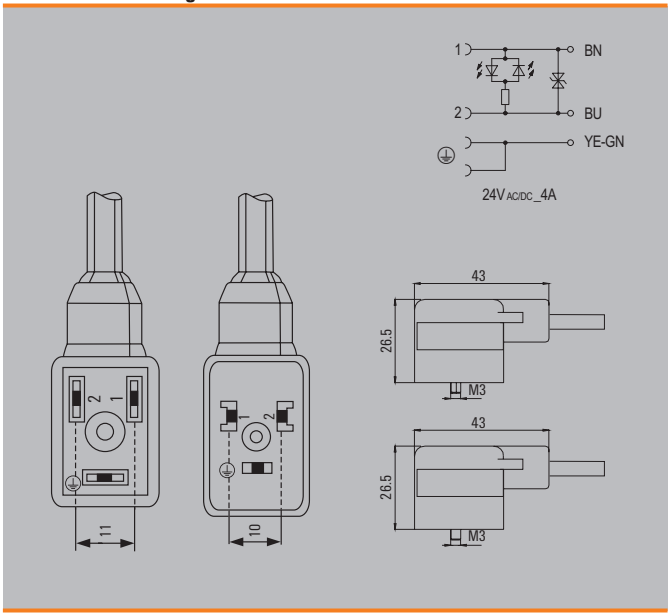
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design B/BD = M3
Approvals	EAC

L in the drawing is the cable length

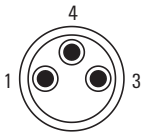
Dimensioned drawing



Design A to M8

Suppressor diode





Male

Ordering data

		A		A		
M8 Male straight - valve plug						
1.5 m	SAIL-VSA-M8G-3-1.5U	**1099760150**				
M8 Male angled - valve plug						
1.5 m			SAIL-VSA-M8W-3-1.5U	**1026190150**		
Note						

Standard cable lengths

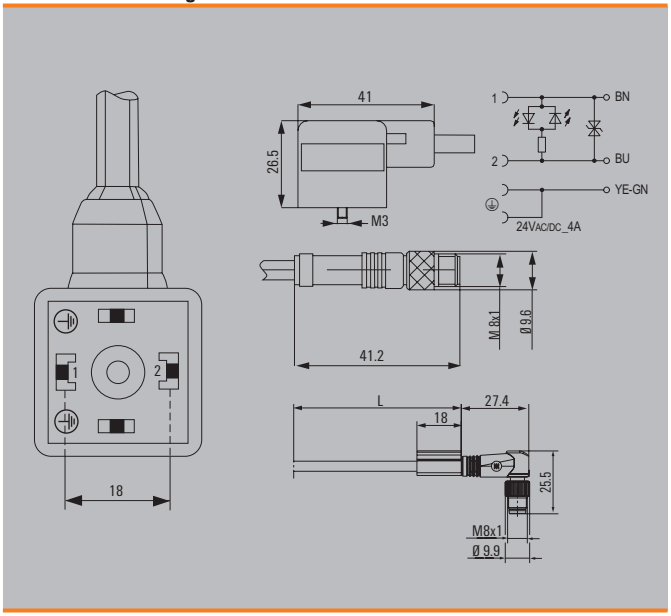
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design A = M3
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing

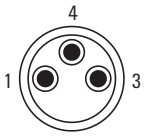


Valve cables

Design B/BD to M8

B = industry standard
BD = DIN standard
Suppressor diode





Male

Ordering data

	B	BD	
M8 Male straight - valve plug			
0.15/1.5 m	SAIL-VSB-M8G-3-0.15U **1271590015**	SAIL-VSBD-M8G-3-1.5U **1099770150**	
M8 Male straight - valve plug 180°			
1.5 m		SAIL-VSBD180-M8G-3-1.5U **1276450150**	
M8 Male angled - valve plug			
1.5 m	SAIL-VSB-M8W-3-1.5U **1026180150**		
Note			

Standard cable lengths

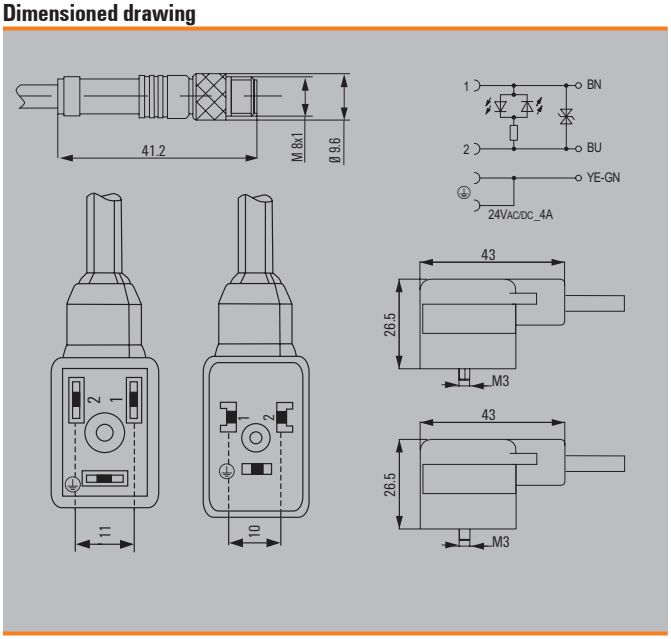
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design B/BD = M3
Approvals	EAC

Further technical data of the cables on catalog.

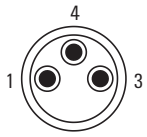
Dimensioned drawing



Design C/CD to M8

C = industry standard
CD = DIN standard
Suppressor diode





Male

Ordering data

M8 Male straight - valve plug	C	CD
1.5 m	SAIL-VSC-M8G-0.15U **1309680015**	SAIL-VSCD-M8G-3-1.5U **1916700150**
Note		

Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.

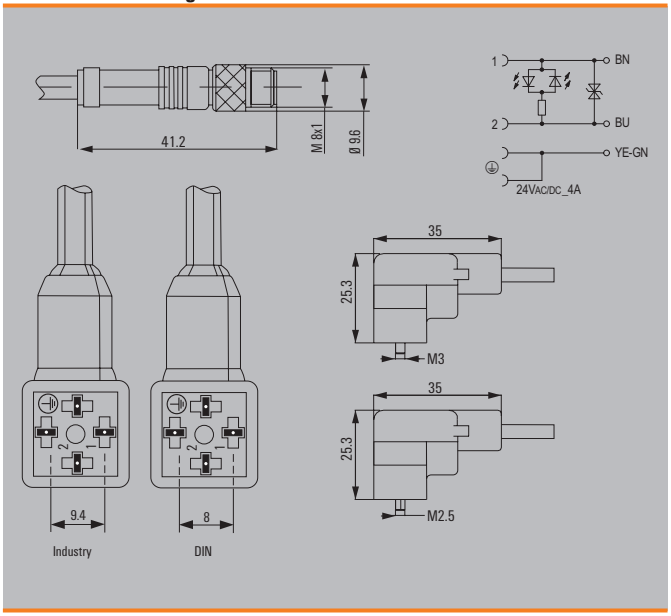
1.5 m	xxxxxx0150
3.0 m	xxxxxx0300
5.0 m	xxxxxx0500
10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design C = M3, Design CD = M2.5
Approvals	EAC

Further technical data of the cables on catalog.

Dimensioned drawing



Connecting cable for sensors and actuators

Connecting line
100 m ring

0.25 mm², PUR, 3 poles, unshielded



0.25 mm², PUR, 4 poles, unshielded



Technical data

Shielded	No	No
Number of poles	3	4
Core cross-section	0.25	0.25
Outer diameter	4.1 ± 0.2 mm	4.4 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	PP	PP
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	360	360
Acceleration	5	5
Speed	5	5
Bending cycles	2 Mio	2 Mio
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0,25(PUR)	100	**1902140000**
Note			

Type	Qty.	Order No.
SAIH-4x0,25(PUR)	100	**1902120000**

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Type	Qty.	Order No.
AM 12	1	**9030060000**
KT 8	1	**9002650000**

Note	See chapter W for further technical data

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, unshielded



0.34 mm², PUR, 4 poles, unshielded



Technical data

	0.34 mm², PUR, 3 poles, unshielded	0.34 mm², PUR, 4 poles, unshielded
Shielded	No	No
Number of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	4.3 ± 0.2 mm	4.7 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	PP	PP
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	360	360
Acceleration	5	5
Speed	5	5
Bending cycles	2 Mio	2 Mio
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0,34(PUR)	100	1902110000
Note			

	Type	Qty.	Order No.
	SAIH-4x0,34(PUR)	100	1902130000

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000

Tools	Type	Qty.	Order No.
	AM 12	1	9030060000
	KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 5 poles, unshielded



Technical data

Shielded	No
Number of poles	5
Core cross-section	0.34
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	black
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	360
Acceleration	5
Speed	5
Bending cycles	2 Mio
Note	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5x0,34(PUR)	100	**1022960000**

Note

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Note

Connecting line
100 m ring

0.25 mm², PVC, 3 poles, unshielded



0.25 mm², PVC, 4 poles, unshielded



Technical data

	0.25 mm², PVC, 3 poles, unshielded	0.25 mm², PVC, 4 poles, unshielded
Shielded	No	No
Number of poles	3	4
Core cross-section	0.25	0.25
Outer diameter	4.5 ± 0.2 mm	4.8 ± 0.2 mm
Sheath material	PVC	PVC
Sheathing colour	black	black
Insulation	PVC	PVC
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C	-5...80 °C
Temperature range fixed, min / max	-30...80 °C	-30...80 °C
Halogen	Yes	Yes
Suitable for cable carriers	No	No
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration		
Speed		
Bending cycles		
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0,25(PVC)	100	1902190000
Note			

	Type	Qty.	Order No.
	SAIH-4x0,25(PVC)	100	1902170000

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000

Tools	Type	Qty.	Order No.
	AM 12	1	9030060000
	KT 8	1	9002650000

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PVC, 3 poles, unshielded



0.34 mm², PVC, 4 poles, unshielded



Technical data

	0.34 mm², PVC, 3 poles, unshielded	0.34 mm², PVC, 4 poles, unshielded
Shielded	No	No
Number of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	4.9 ± 0.2 mm	5.3 ± 0.2 mm
Sheath material	PVC	PVC
Sheathing colour	black	black
Insulation	PVC	PVC
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C	-5...80 °C
Temperature range fixed, min / max	-30...80 °C	-30...80 °C
Halogen	Yes	Yes
Suitable for cable carriers	No	No
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration		
Speed		
Bending cycles		
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0,34(PVC)	100	1902160000
Note			

	Type	Qty.	Order No.
	SAIH-4x0,34(PVC)	100	1902180000

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	9030060000
Cutting tool	KT 8	1	9002650000

Type	Qty.	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Connecting line
100 m ring

0.34 mm², PVC, 5 poles, unshielded



Technical data

Shielded	No
Number of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PVC
Sheathing colour	black
Insulation	PVC
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	

Note

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5x0.34(PVC)	100	**1412620000**

Note

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, unshielded



0.34 mm², PUR, 4 poles, unshielded



Technical data

	0.34 mm², PUR, 3 poles, unshielded	0.34 mm², PUR, 4 poles, unshielded
Shielded	No	No
Number of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	4.3 ± 0.2 mm	4.7 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	yellow	yellow
Insulation	PP	PP
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	360	360
Acceleration	5	5
Speed	5	5
Bending cycles	5 Mio	5 Mio
Note		

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0.34(PUR)GE	100	**1345520000**
Note			

	Type	Qty.	Order No.
	SAIH-4x0.34(PUR)GE	100	**1345530000**

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

	Type	Qty.	Order No.
	AM 12	1	**9030060000**
	KT 8	1	**9002650000**

Note

Connecting line
100 m ring

0.34 mm², PUR, 5 poles, unshielded



Technical data

Shielded	No
Number of poles	5
Core cross-section	0.34
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	yellow
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	360
Acceleration	5
Speed	5
Bending cycles	5 Mio

Note

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5x0.34(PUR)GE	100	**1345540000**

Note

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Note

Connecting cable for sensors and actuators

Connecting line
100 m ring

0.34 mm², PUR, 3 poles, shielded



0.34 mm², PUR, 4 poles, shielded



Technical data

Shielded	Yes	Yes
Number of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	5.0 ± 0.2 mm	5.4 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	PP	PP
Colour coding	brown, blue, black	black, brown, white, blue
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration	5	5
Speed	200	200
Bending cycles	2 Mio	2 Mio
Note		

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-3x0.34-S(PUR)	100	**1357320000**
Note			

Type	Qty.	Order No.
SAIH-4x0.34-S(PUR)	100	**1357330000**

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Type	Qty.	Order No.
AM 12	1	**9030060000**
KT 8	1	**9002650000**

Note

Connecting line
100 m ring

0.34 mm², PUR, 5 poles, shielded



Technical data

Shielded	Yes
Number of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	black
Insulation	PP
Colour coding	blue, white, brown, grey, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	200
Bending cycles	2 Mio

Note

Ordering data

	Type	Qty.	Order No.
100.0 m	SAIH-5x0.34-S(PUR)	100	**1357340000**

Note

Accessories

Tools

	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**

Note

Connecting cable for Weidmüller distributor

Bus cable	3 x 0.75 - 8 x 0.34, PUR, unshielded	3 x 0.75 - 16 x 0.34, PUR, unshielded
		

Technical data

Shielded	No	No
Number of poles	11	19
Core cross-section		
Outer diameter	7.7 ± 0.3 mm	9.1 ± 0.3 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	TPM	TPM
Colour coding	white, green, yellow, grey, pink, red, black, violet, blue, brown, Green/yellow	violet, red, grey, red / blue, green, blue, grey / pink, white / green, white / yellow, white / grey, black, Green/yellow, Yellow / brown, brown / green, white, yellow, pink, grey / brown, brown
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-50...80 °C	-50...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration		
Speed		
Bending cycles	2 Mio	2 Mio
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
1.0 m	SAIH-SLL-3x0,75-8x0,34	1	**9457420000**	SAIH-SLL-3X0.75-16X0.34	1	**9457560000**
100.0 m						
Note						

Accessories

Tools	Type	Qty.	Order No.	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**	KT 8	1	**9002650000**

Note

Bus cable

5 x 0.75 - 16 x 0.34, PUR, unshielded



3 x 1.0 - 16 x 0.5, PUR, unshielded



Technical data

Shielded	No	No
Number of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	4.3 ± 0.2 mm	4.7 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	black	black
Insulation	PP	PP
Colour coding	brown, blue, black	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	360	360
Acceleration	5	5
Speed	5	5
Bending cycles	2 Mio	2 Mio
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
1.0 m						
100.0 m	SAIH-3x0,34(PUR)	100	**1902110000**	SAIH-4x0,34(PUR)	100	**1902130000**
Note						

Accessories

Tools	Type	Qty.	Order No.	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**	AM 12	1	**9030060000**
Cutting tool	KT 8	1	**9002650000**	KT 8	1	**9002650000**

Note

M8, M12 Plug-in connectors and protective caps

M8, M12 Plug-in connectors and protective caps	SAI connectors	C.2
	Customisable connectors	C.4
	Connectors – accessories	C.40
	Built-in plugs	C.48
	Valve plugs for custom assembly	C.60
	Protective sleeve adapter	C.66

SAI connectors

Self assembled M8 and M12 connectors are integral and essential connectivity components. They are available with a wide variety of different wire connection methods. Weidmüller offers all of the secure connection methods, which include screw, tension clamp, IDC-, Crimp or solder connection mechanisms.
One highlight in this line is the shielded, D-coded M-12 connectors. They are available in male and female versions and with tension clamp connection.
The eight pole screw connection connectors are a special favourite. These are available in shielded or unshielded versions.





Fast

The M12 connectors can also come with the tension clamp conductor connection method, either shielded or unshielded.



Versatile

Eight-pole M12 connectors, shielded, with screw connection and a cable outer insulation diameter of 8 – 10 mm.



Proven

M8 connectors with screw connections for the conductor are much easier to assemble compared to connectors which require soldering.



Safe

M8 connectors with shield connections are in increasing demand as the trend towards miniaturisation continues.



M12 connectors
Screw and tension clamp connection PUSH-IN, insulation displacement connection, solder connection



M8 connectors
Screw- and solder connection insulation displacement connection



M8 and M12 connectors
T distributor



Protective caps for SAI distributors



M12/M8/M5
Built in connectors



Customisable valve connectors

Overview of M8 and M12 screw connections

M8



Plugs and sockets (screw connection) for custom assembly to make up M8 and M12 connections.

Machine builders frequently need individual cable lengths. To meet this demand, Weidmüller can supply M8 and M12 plug in connectors for custom assembly.

The plug in connectors are available with different cable gland diameters. In the 90° versions, the outgoing direction of the cable can be changed in 90° steps. The connected plug in connectors comply with IP 67 ingress protection classification. There are also plug in connectors available for double assignment of distributors.

M12



M12 Metal



Screwty®



This is the perfect tool for all common cable glands on sensor and actuator cables.

The Screwty® fits M12 and M8 round plugs. Both types can be used for the plugs and sockets on custom cables.

The handle of every Screwty® has a conventional 1/4 inch fitting and can be used for all sizes. Simply turn the tool to tighten or release a round plug.

The Screwty® is also available with a torque fitting. This adjustable attachment can be used for all sizes. The torque can be infinitely adjusted between 0.5 and 1.7 Nm.

IDC-Tool



Weidmüller offers various products with insulation displacement connection for M12 connectors. These include the IDC connection elements, which can be directly screwed to a distributor, such as part nos. 9457720000 and 1766810000.
In addition, there are two M12 IDC adapters with part nos. 1781550001 and 1781540001. All four elements can be fitted by hand with no additional tools. When there are many connections to be made in a day, however, use of the copyright protected IDC tool is recommended. This tool works like a knurled screw on the terminal.

Overview of SAI connector M12

Plastic

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
PG7 Male	1021470000	9457550000	9456940000	1021280000	9457290000	9456950000
PG7 Female	1021490000	9457240000	9457250000	1021310000	9457700000	9457260000
Screw connection						
PG9 Male	1021480000	1807340000	1807350000	1021280000	1807360000	1807370000
PG9 Female	1021510000	1807230000	1807250000	1021310000	1807240000	1807330000
Screw connection	8-pole	12-pole (Solder connection)		8-pole		
PG 9 Male	1836970000	1924950000				
PG9 Female	1836960000	1924960000		1934890000		
IDC connection	(0.14 - 0.34 mm²) 4-pole	(0.34 - 0.75 mm²) 4-pole				
Male	1781550001	1852740000				
Female	1781540001	1852730000				
Tension clamp connection			5-pole			
Male			1906390000			
Female			1924970000			

Metal

A-coded	straight			angled		
Screw connection	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
PG7 Male			1191030000			
PG7 Female			1191020000			
PG9 Male		9455640000	1784740000		1803930000	1803940000
PG9 Female		8426220000	1784750000		1803910000	1803920000
Tension clamp connection						
PG9 Male						
PG9 Female		1784740002				1275750000
B-coded Screw connection						
PG9 Male			1784790000			1944570000
PG9 Female			1784780000			1944580000
D-coded Screw connection						
PG9 Male		1892120000				
PG9 Female		1892130000				
D-coded Screw connection						
PG9 Male		1892120001			1803930001	
PG9 Female		1892130001			1139330000	

Overview of M8 connectors

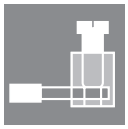
Plastic

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1803860000	1803850000				
Female screw connection	1803870000	1803880000				
Male IDC connection	1784040001	1784060001				
Female IDC connection	1784030001	1784050001				
Male solder connection				1920990000	1921000000	
Female solder connection				1920970000	1920980000	

Metal

	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1010060000	1010070000				
Female screw connection	1010080000	1010090000				
Male solder connection	1921030000	1921040000				
Female solder connection	1921010000	1921020000				

M12 screw connection
A-coded



SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

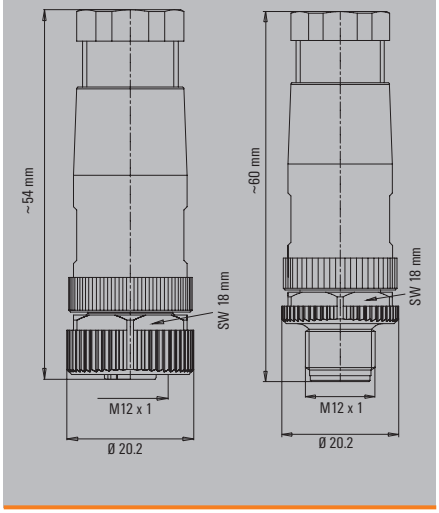
Male			
3-pole. PG 7	SAIS-3/7	1	1021470000
3-pole. PG 9	SAIS-3/9	1	1021480000
4-pole. PG 7	SAIS-4/7	1	9457550000
4-pole. PG 9	SAIS-4/9	1	1807340000
Female			
3-pole. PG 7	SAIB-3/7	1	1021490000
3-pole. PG 9	SAIB-3/9	1	1021510000
4-pole. PG 7	SAIB-4/7	1	9457240000
4-pole. PG 9	SAIB-4/9	1	1807230000
Note	Other versions on request		

Type	Qty.	Order No.
SAISW-3/7	1	1021280000
SAISW-3/9	1	1021290000
SAISW-4/7	1	9457290000
SAISW-4/9	1	1807360000
SAIBW-3/7	1	1021310000
SAIBW-3/9	1	1021320000
SAIBW-4/7	1	9457700000
SAIBW-4/9	1	1807240000
Other versions on request		

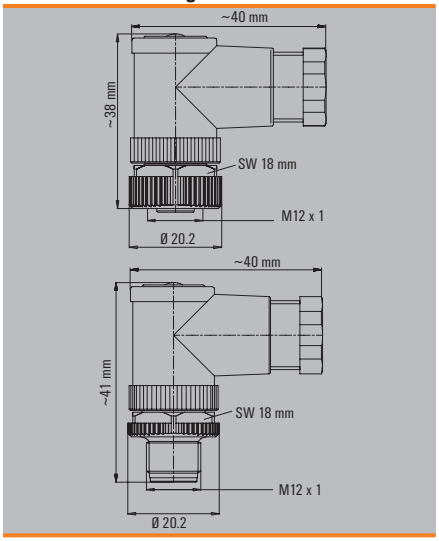
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	CuSnZn	CuSnZn
Note		

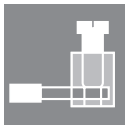
Dimensioned drawing



Dimensioned drawing



M12 screw connection
A-coded



SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

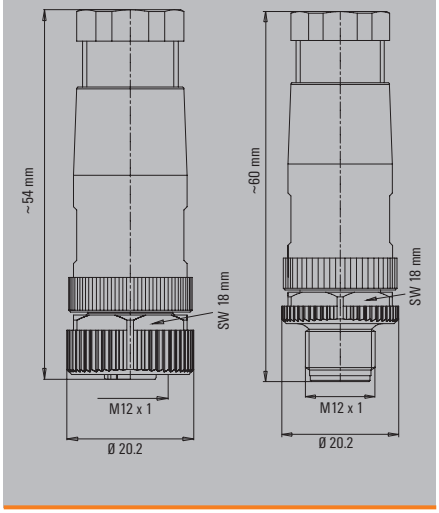
Male			
5-pole. PG 7	SAIS-5/7	1	9456940000
5-pole. PG 9	SAIS-5/9	1	1807350000
8-pole. PG 9	SAIS-8/9	1	1836970000
Female			
5-pole. PG 7	SAIB-5/7	1	9457250000
5-pole. PG 9	SAIB-5/9	1	1807250000
8-pole. PG 9	SAIB-8/9	1	1836960000
Note	Other versions on request		

Type	Qty.	Order No.
SAISW-5/7	1	9456950000
SAISW- 5/9	1	1807370000
SAIBW-5/7	1	9457260000
SAIBW-5/9	1	1807330000
SAIBW-8/9-M12	1	1934890000
Other versions on request		

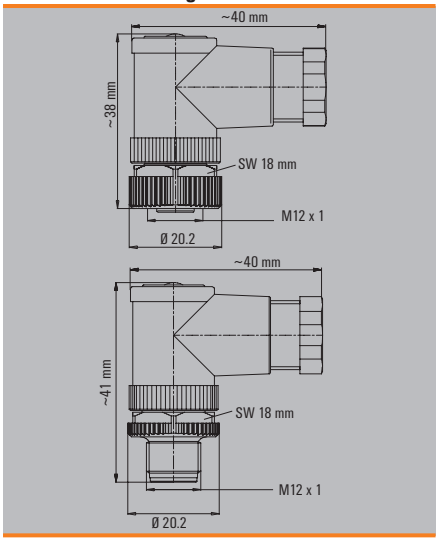
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	125 V (5-pole) / 60 V (8-pole)	125 V (5-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	CuSnZn (5-pole) / gold plated (8-pole)	CuSnZn
Note		

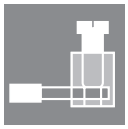
Dimensioned drawing



Dimensioned drawing



Twin plug
M12 screw connection



SAIS-ZW



SAIS-ZWW



Ordering data

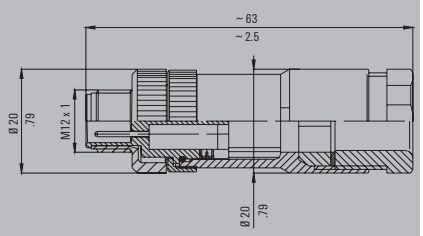
Type	Qty.	Order No.
SAIS-ZW-5	1	9457540000
Other versions on request		

Type	Qty.	Order No.
SAIS-ZWW	1	1837560000
Other versions on request		

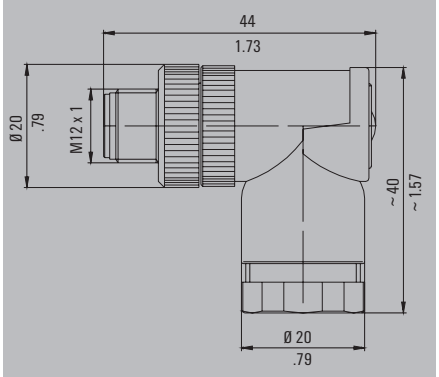
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	1...3 mm, 4...5 mm	1...3 mm, 4...5 mm
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	36 V	36 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP67	IP67
Contact surface	CuSnZn	CuSnZn
Note		

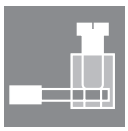
Dimensioned drawing



Dimensioned drawing



M12 screw connection
A-coded
Plastic



SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

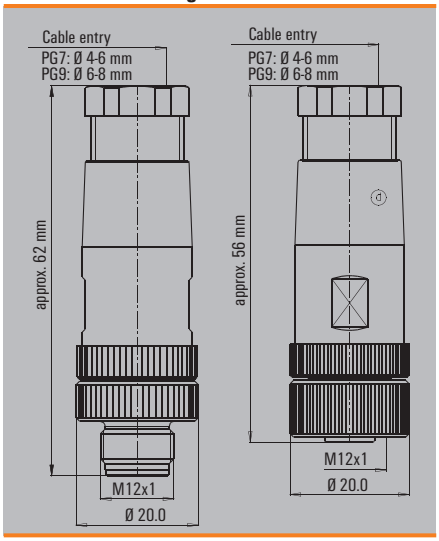
Male			
4-pole. PG 7	SAIS-4/7-(KV)	1	1921060000
5-pole. PG 7	SAIS-5/7-(KV)	1	1921050000
5-pole. PG 9	SAIS-5/9-(KV)	1	1007080000
8-pole. PG 9	SAIS-8/9-KV	1	1461930000
Female			
4-pole. PG 7	SAIB-4/7-(KV)	1	1921080000
5-pole. PG 7	SAIB-5/7-(KV)	1	1921070000
5-pole. PG 9	SAIB-5/9-(KV)	1	1007090000
Note	Other versions on request		

Type	Qty.	Order No.
SAISW-4/7-(KV)	1	1962620000
SAISW-5/7-(KV)	1	1962610000
SAISW-5/9-(KV)	1	1007060000
SAIBW-4/7-(KV)	1	1935610000
SAIBW-5/7-(KV)	1	1962630000
SAIBW-5/9-(KV)	1	1007070000
Other versions on request		

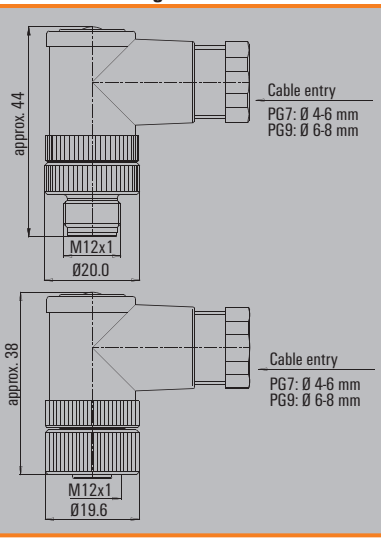
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	CuSnZn	CuSnZn
Note	KV = plastic cable gland	KV = plastic cable gland

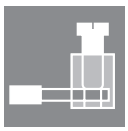
Dimensioned drawing



Dimensioned drawing



M12 screw connection with shield connection A-coded



FBCon / SAIS

Straight



SAISW / SAIBW

Angled



Ordering data

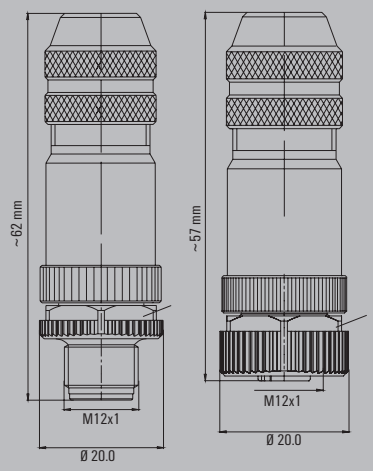
Male	Type	Qty.	Order No.
4-pole. PG 9	FBCON M12 4P M EMC	1	**9455640000**
5-pole. PG 9	SAIS-M-5/8S M12 5P A-COD	1	**1784740000**
Female			
4-pole. PG 9	FBCON M12 4P FM EMC	1	**8426220000**
5-pole. PG 7	SAIBM-5/6S M12 5P A-COD	1	**1191020000**
5-pole. PG 9	SAIB-M-5/8S M12 5P A-COD	1	**1784750000**
Note	Other versions on request		

Type	Qty.	Order No.
SAISW-M-4/8 M12	1	**1803930000**
SAISW-M-5/8 M12	1	**1803940000**
SAIBW-M-4/8 M12	1	**1803910000**
SAIBW-M-5/8 M12	1	**1803920000**
Other versions on request		

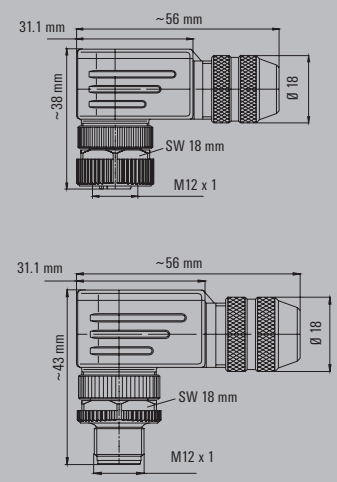
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

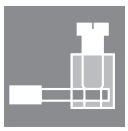
Dimensioned drawing



Dimensioned drawing



M12 screw connection with shield connection A-coded



SAISM / SAISB 8/11

Straight



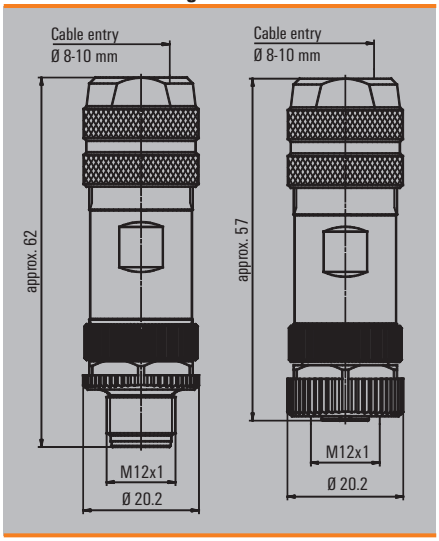
Ordering data

Male			
	8-pole. PG 9	SAISM-8/9S-M12	1	1258940000
	8-pole. PG 11	SAISM-8/11S-M12	1	1118910000
Female				
	8-pole. PG 9	SAIBM-8/9S-M12	1	1258930000
	8-pole. PG 11	SAIBM-8/11S-M12	1	1118920000
Note				

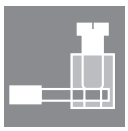
Technical data

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...0.5 mm²
Rated current	2 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M12 screw connection with shield connection B-coded



SAISM / SAIBM

Straight



SAISW / SAIBW

Angled



Ordering data

Male			
	5-pole. PG 9		
Female			
	5-pole. PG 9		
Note			

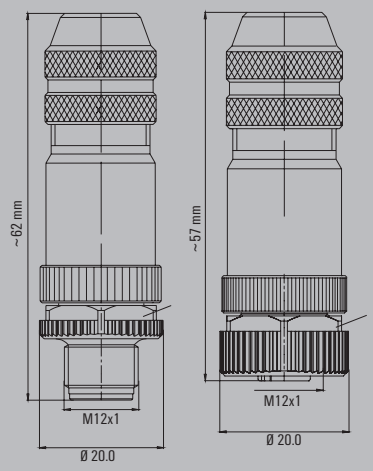
Type	Qty.	Order No.
SAISM 5/8S M12 5P B-COD	1	**1784790000**
SAIBM 5/8S M12 5P B-COD	1	**1784780000**

Type	Qty.	Order No.
SAISW-M-5/8 M12 B-COD	1	**1944570000**
SAIBW-M-5/8 M12 B-COD	1	**1944580000**

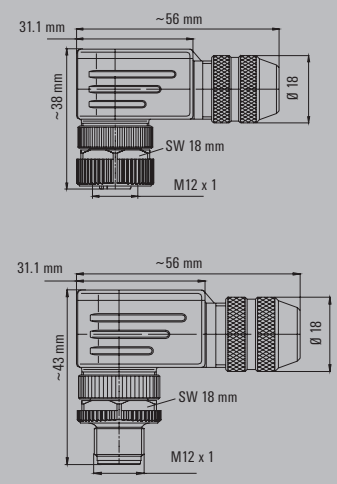
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

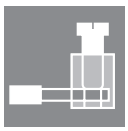
Dimensioned drawing



Dimensioned drawing



Screw connection with shield connection D-coded



SAISM / SAIBM

Straight



Ordering data

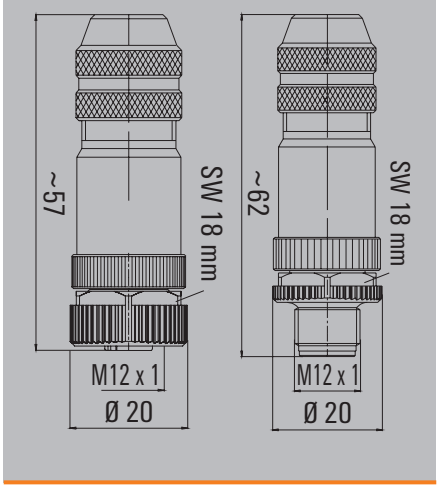
Male			
	4-pole. PG 9		
Female			
	4-pole. PG 9		
Note			

Type	Qty.	Order No.
SAISM-4/8S-M12-4P D-COD	1	**1892120000**
SAIBM-4/8S-M12-4P D-COD	1	**1892130000**

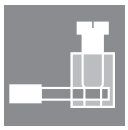
Technical data

Type of connection	Screw connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm² / 0.75 mm²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 screw connection



SAIS / SAIB

Straight



Ordering data

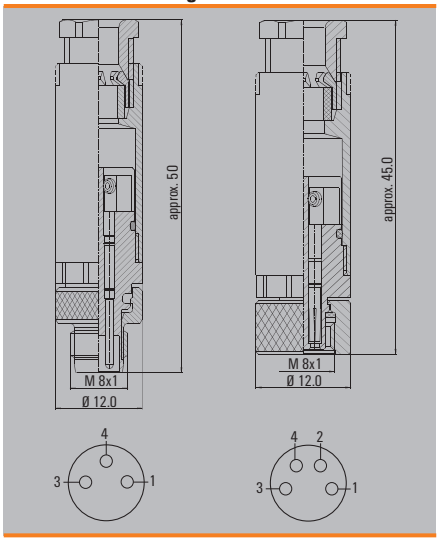
Male			
	3-pole	SAIS-M8-3P	1803860000
	4-pole	SAIS-M8-4P	1803850000
Female			
	3-pole	SAIB-M8-3P	1803870000
	4-pole	SAIB-M8-4P	1803880000
Note		Other versions on request	

Type	Qty.	Order No.
SAIS-M8-3P	1	1803860000
SAIS-M8-4P	1	1803850000
SAIB-M8-3P	1	1803870000
SAIB-M8-4P	1	1803880000

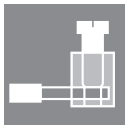
Technical data

Type of connection	Screw connection
Housing main material	PA
Connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.14...0.5 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 screw connection with shield connection



SAISM / SAIBM



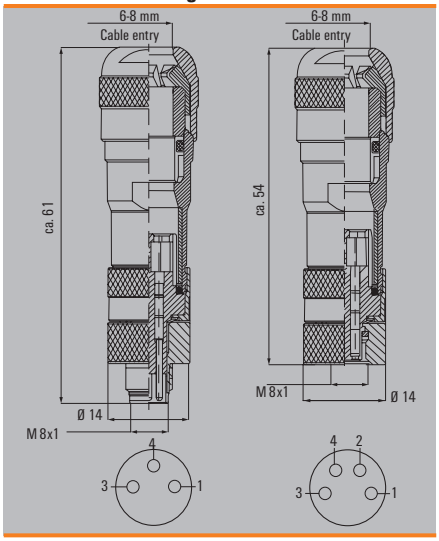
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAISM-3/9S-M8	1	1467550000
	4-pole	SAISM-4/9S-M8	1	1467570000
Female				
	3-pole	SAIBM-3/9S-M8	1	1467560000
	4-pole	SAIBM-4/9S-M8	1	1467580000
Note				

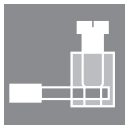
Technical data

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M8
Cable diameter	6...8 mm
Wire cross-section, min. / max.	0.14...0.5 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 screw connection with shield connection



SAISM / SAIBM

Straight



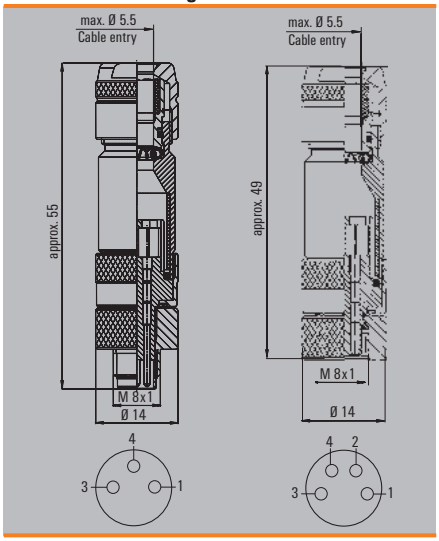
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAISM-M8-3P-(IF)	1	1010060000
	4-pole	SAISM-M8-4P-(IF)	1	1010070000
Female				
	3-pole	SAIBM-M8-3P-(IF)	1	1010080000
	4-pole	SAIBM-M8-4P-(IF)	1	1010090000
Note				

Technical data

Type of connection	Screw connection
Housing main material	CuZn
Connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.14...0.5 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	IF = iris-type spring

Dimensioned drawing



M12 solder connection
A-coded



SAIS / SAIB

Straight



SAIBW

Angled



Ordering data

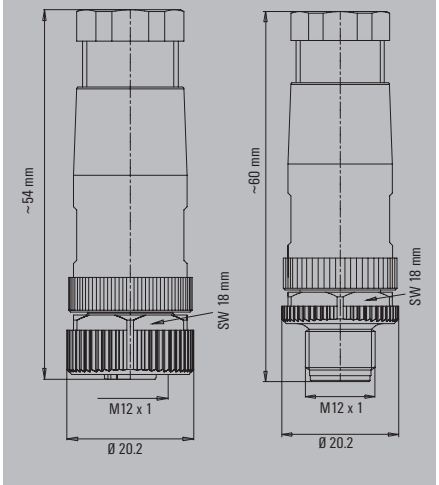
Male					
	12-pole. PG 9	SAIS-12/9-(TL)	1	1924950000	
Female					
	12-pole. PG 9	SAIB-12/9-(TL)	1	1924960000	
Note					

Type	Qty.	Order No.
SAIBW-12/9-(TL)	1	1925870000

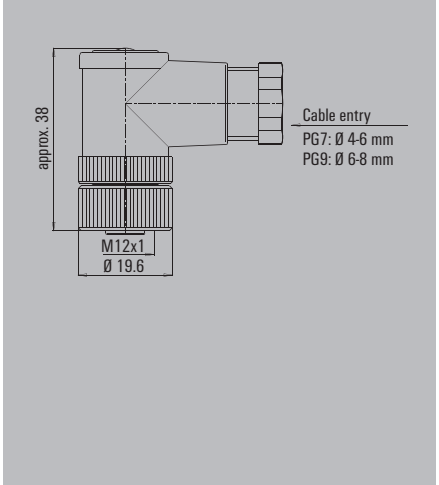
Technical data

Type of connection	Solder connection	Solder connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.25 mm²	0.25...0.25 mm²
Rated current	1 A	1 A
Rated voltage	30 V	30 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



Solder connection M8 with shield connection



SAISM / SAIBM

Straight



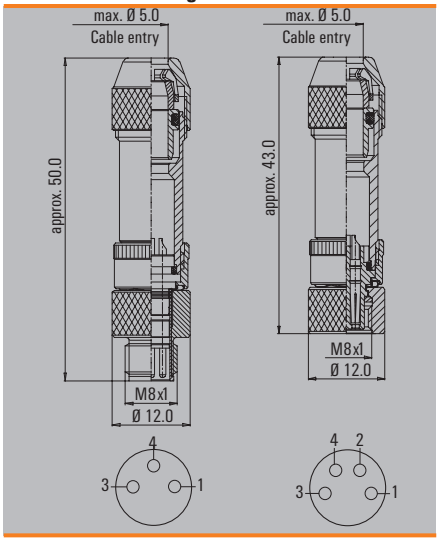
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAISM-M8-3P(TL)	1	**1921030000**
	4-pole	SAISM-M8-4P(TL)	1	**1921040000**
Female				
	3-pole	SAIBM-M8-3P(TL)	1	**1921010000**
	4-pole	SAIBM-M8-4P(TL)	1	**1921020000**
Note				

Technical data

Type of connection	Solder connection
Housing main material	CuZn
Connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.25...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Solder connection M8



SAISW / SAIBW

Angled



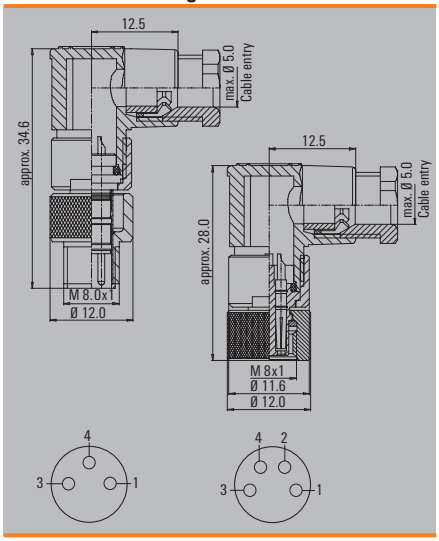
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAISW-M8-3P(TL)	1	**1920990000**
	4-pole	SAISW-M8-4P(TL)	1	**1921000000**
Female				
	3-pole	SAIBW-M8-3P(TL)	1	**1920970000**
	4-pole	SAIBW-M8-4P(TL)	1	**1920980000**
Note				

Technical data

Type of connection	Solder connection
Housing main material	PA
Connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.25...0.25 mm²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



PUSH IN M12
A coded



SAISP / SAIBP

Straight



SAISWP / SAIBWP

Angled



Ordering data

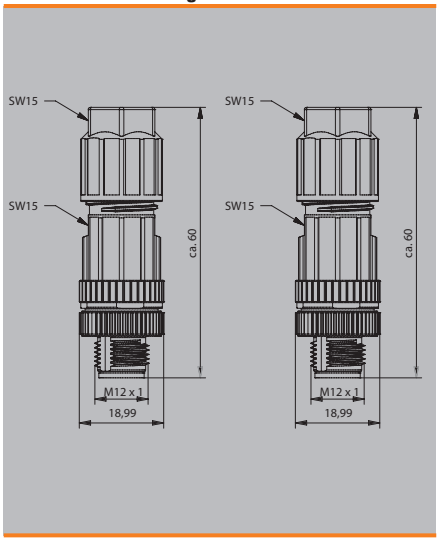
Male				
	4-pole	SAISP-4A-4/8-M12	1	**2681480000**
	5-pole	SAISP-5A-4/8-M12	1	**2681560000**
Female				
	4-pole	SAIBP-4A-4/8-M12	1	**2681500000**
	5-pole	SAIBP-5A-4/8-M12	1	**2681580000**
Note		Other versions on request		

Type	Qty.	Order No.
SAISWP-4A-4/8-M12	1	**2681490000**
SAISWP-5A-4/8-M12	1	**2681570000**
SAIBWP-4A-4/8-M12	1	**2681510000**
SAIBWP-5A-4/8-M12	1	**2681590000**
Other versions on request		

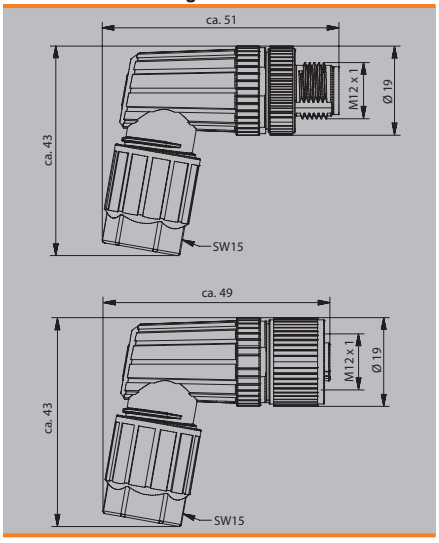
Technical data

Type of connection	PUSH IN	PUSH IN
Housing main material	PA 66	PA 66
Connection thread	M12	M12
Cable diameter	4...8 mm	4...8 mm
Wire cross-section, min. / max.	0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Ni/Au	Ni/Au
Note		

Dimensioned drawing



Dimensioned drawing



PUSH IN M12
with shield connection
A coded



SAISP-M / SAIBP-M

Straight



SAISWP-M / SAIBWP-M

Angled



Ordering data

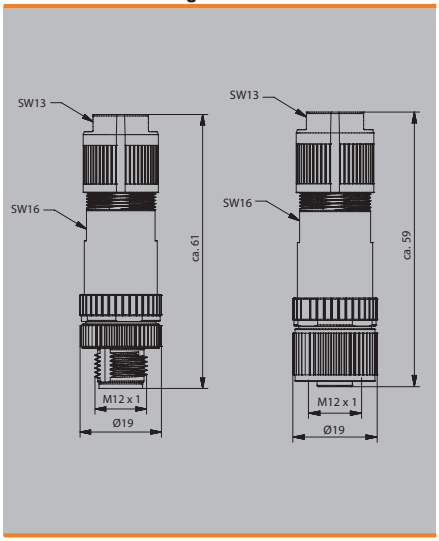
Male			
	4-pole	SAISP-M-4A-4/8-M12	1	2681520000
	5-pole	SAISP-M-5A-4/8-M12	1	2681600000
Female				
	4-pole	SAIBP-M-4A-4/8-M12	1	2681540000
	5-pole	SAIBP-M-5A-4/8-M12	1	2681620000
Note		Other versions on request		

Type	Qty.	Order No.
SAISWP-M-4A-4/8-M12	1	2681530000
SAISWP-M-5A-4/8-M12	1	2681610000
SAIBWP-M-4A-4/8-M12	1	2681550000
SAIBWP-M-5A-4/8-M12	1	2681630000
Other versions on request		

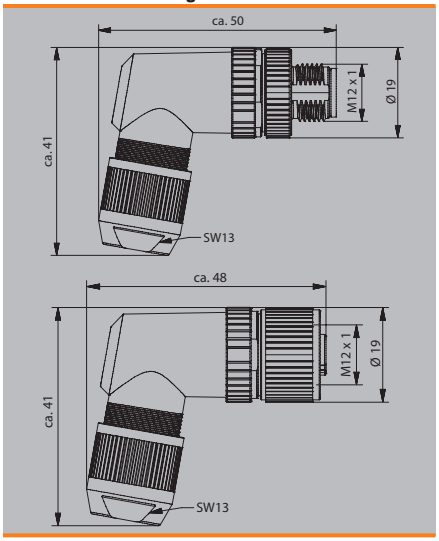
Technical data

Type of connection	PUSH IN	PUSH IN
Housing main material	PA 66	PA 66
Connection thread	M12	M12
Cable diameter	4...8 mm	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Ni/Au	Ni/Au
Note		

Dimensioned drawing



Dimensioned drawing



PUSH IN M12
with shield connection
B coded
D coded



SAISP / SAIBP

Straight



SAISWP / SAIBWP

Angled



Ordering data

Male			
	D-coded, 4-pole	SAISP-M-4D-4/8-M12	2681680000
	B-coded, 5-pole	SAISP-M-5B-4/8-M12	2681640000
Female			
	D-coded, 4-pole	SAIBP-M-4D-4/8-M12	2681700000
	B-coded, 5-pole	SAIBP-M-5B-4/8-M12	2681660000
Note		Other versions on request	

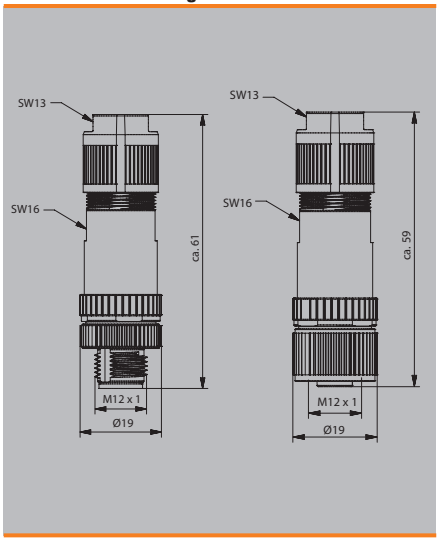
Type	Qty.	Order No.
SAISP-M-4D-4/8-M12	1	2681680000
SAISP-M-5B-4/8-M12	1	2681640000
SAIBP-M-4D-4/8-M12	1	2681700000
SAIBP-M-5B-4/8-M12	1	2681660000
Other versions on request		

Type	Qty.	Order No.
SAISWP-M-4D-4/8-M12	1	2681690000
SAISWP-M-5B-4/8-M12	1	2681650000
SAIBWP-M-4D-4/8-M12	1	2681710000
SAIBWP-M-5B-4/8-M12	1	2681670000
Other versions on request		

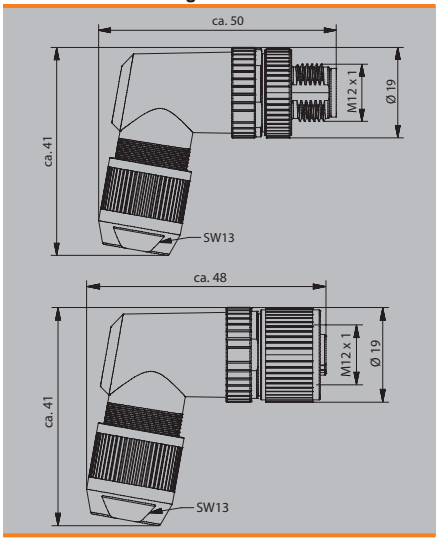
Technical data

Type of connection	PUSH IN	PUSH IN
Housing main material	PA 66	PA 66
Connection thread	M12	M12
Cable diameter	4...8 mm	4...8 mm
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Ni/Au	Ni/Au
Note		

Dimensioned drawing



Dimensioned drawing



Tension clamp connection M12
A-coded



SAIS-ZF

Straight



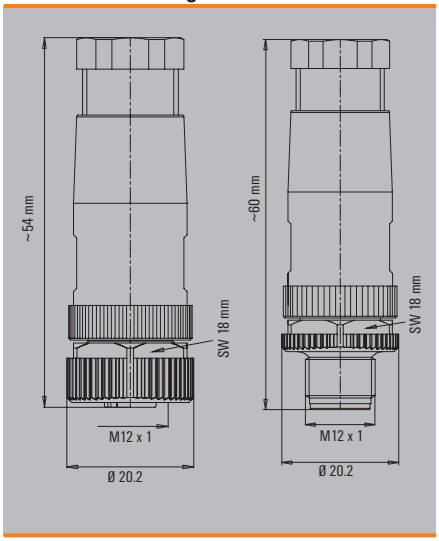
Ordering data

Male		Type	Qty.	Order No.
	5-pole. PG 7	SAIS-5/7-ZF	1	**1906390000**
	5-pole. PG 9	SAIS-5/9-ZF	1	**1044700000**
Female				
	5-pole. PG 7	SAIB-5/7-ZF	1	**1924970000**
	5-pole. PG 9	SAIB-5/9-ZF	1	**1044710000**
Note				

Technical data

Type of connection	Tension-clamp connection
Housing main material	PA
Connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M12 tension-clamp connection, stainless steel with shield connection



SAIS / SAIB VA

Straight



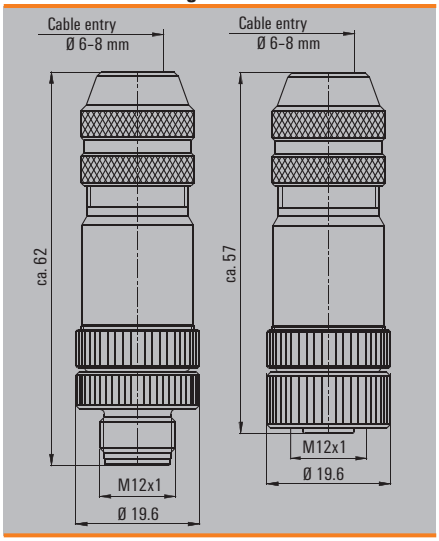
Ordering data

Male		Type	Qty.	Order No.
	A-coded, 5-pole, PG 9	SAIS 5/9-VA	1	1920700000
	B-coded, 5-pole, PG 9	SAIS 5/9-VA-B-COD	1	1920720000
	D-coded, 5-pole, PG 9	SAIS 5/9-VA D-COD	1	1920700001
Female				
	A-coded, 5-pole, PG 9	SAIB 5/9-VA	1	1920710000
	B-coded, 5-pole, PG 9	SAIB 5/9-VA-B-COD	1	1920730000
Note				

Technical data

Type of connection	Tension-clamp connection
Housing main material	1.4404/316L
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD / D-COD)

Dimensioned drawing



M12 plug, Tension-clamp connection, D-coded



SAISM / SAIBM

Straight



SAISW / SAIBW

angled



Ordering data

Male			
	4-pole. PG 9		
Female			
	4-pole. PG 9		
Note			

Type	Qty.	Order No.
SAISM-4/8S-M12 4P D-ZF	1	**1892120001**
SAIBM-4/8S-M12 4P D-ZF	1	**1892130001**

Type	Qty.	Order No.
SAISW-4/8S-M12 4P D-ZF	1	**1803930001**
SAIBW-4/8S-M12 4P D-ZF	1	**1139330000**

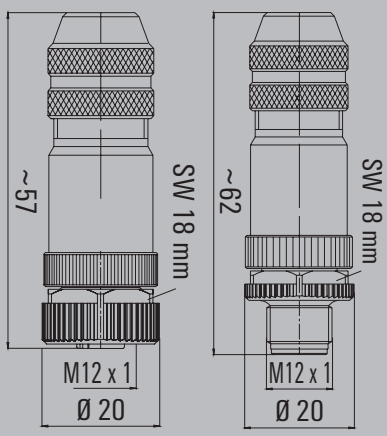
Technical data

Type of connection	Tension-clamp connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...
Connector standard	IEC 61076-2-101
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm² / 0.5 mm²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

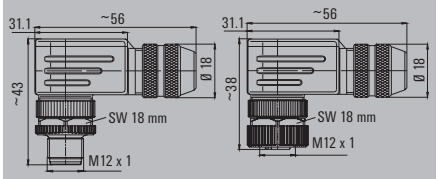
Tension-clamp connection
CuZn
-40 °C...
IEC 61076-2-101
M12
6...8 mm (PG9)
0.25 mm² / 0.5 mm²
4
250
-40 ... +85 ° C
IP67
Gold-plated

Tension-clamp connection
CuZn
-40 °C...
IEC 61076-2-101
M12
6...8 mm (PG9)
0.25 mm² / 0.5 mm²
4
250
-40 ... +85 ° C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



M8 and M12 insulation displacement connection (IDC)

M8



The assembly of round plugs is very time consuming.
The cable has to be stripped and possibly, also fitted with a wire end ferrule.

Weidmüllers IDC plug in connector systems offers a quick fit connection system that saves both time and money.

The IDC quick fit, quick connection system is available for M12 and M8 connectors.

M12



Screwty®



This is the perfect tool for all common cable glands on sensor and actuator cables.

The Screwty® fits M12 and M8 round plugs. Both types can be used for plugs and sockets on custom cables.

The handle of every Screwty® has a conventional 1/4 inch fitting and can be used for all sizes. Simply turn the tool to tighten or release a round plug.

The Screwty® is also available with a torque fitting.
This adjustable attachment can be used for all sizes.

The torque can be infinitely adjusted between 0.5 and 1.7 Nm.

Insulation-displacement connection M12
A-coded



SAIS IDC / SAIB IDC

Straight



SAIS IDC / SAIB IDC

Straight



Ordering data

Male			
	4-pole		
Female			
	4-pole		
Note			

Type	Qty.	Order No.
SAIS-4-IDC M12 SMALL	1	**1781550001**
SAIB-4-IDC-M12 SMALL	1	**1781540001**
Other versions on request		

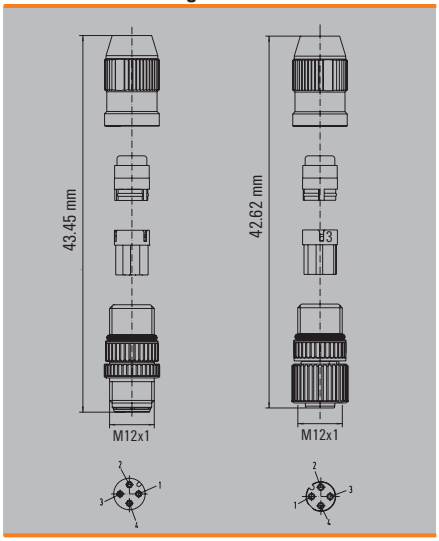
Type	Qty.	Order No.
SAIS-4-IDC M12	1	**1781550000**
SAIB-4-IDC M12	1	**1781540000**
Other versions on request		

Technical data

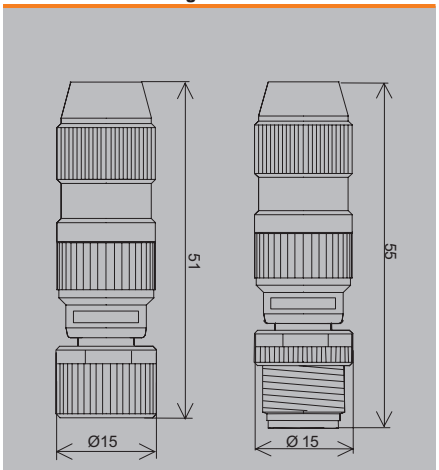
Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.14...0.34 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Insulation displacement connection	
CuZn	
M12	
4...5.1 mm	
0.25...0.5 mm²	
4 A	
32 V	
-25...+85 °C	
IP67	
tinned	

Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection M12 (0.75) A-coded



SAIS IDC / SAIB IDC (0.75)

Straight



SAISW IDC / SAIBW IDC

Angled



Ordering data

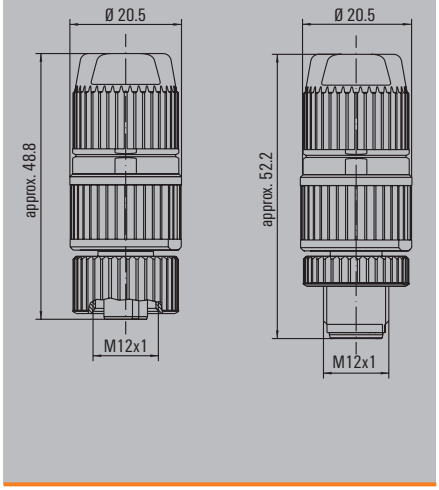
Male				
	3-pole	SAIS-3-4-5-IDC(0.75)M12	1	**1852720000**
	4-pole	SAIS-4-IDC (0,75) M12	1	**1852740000**
Female				
	3-pole	SAIB-3-4-5-IDC(0.75)M12	1	**1852730000**
	4-pole	SAIB-4-IDC (0,75) M12	1	**1852750000**
Note		Other versions on request		

Type	Qty.	Order No.
SAISW-4-IDC M12	1	**1812870000**
SAIBW-4-IDC M12	1	**1812890000**
Other versions on request		

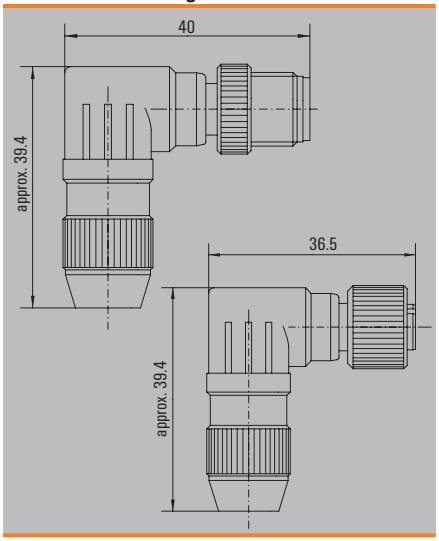
Technical data

Type of connection	Insulation displacement connection	Insulation displacement connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	5.5...8 mm	4...5.1 mm
Wire cross-section, min. / max.	0.34...0.75 mm²	0.25...0.5 mm²
Rated current	6 A	4 A
Rated voltage	50 V	32 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP67	IP67
Contact surface	tinned	tinned
Note		

Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection M12 with shield connection B coded



SAIS / SAIB

Straight



Ordering data

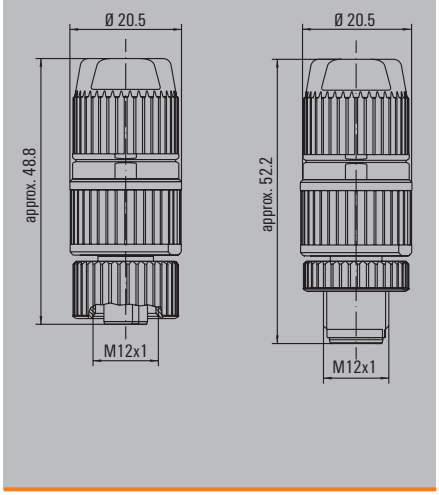
Male			
	3-pole. PG 9		
Female			
	3-pole. PG 9		
Note			

Type	Qty.	Order No.
SAIS-2-IDC-M12B-COD	1	**1864730000**
SAIB-2-IDC-M12B-COD	1	**1864740000**

Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	PB = PROFIBUS (B-COD) IE = Industrial Ethernet (D-COD)

Dimensioned drawing



Insulation-displacement connection M12 with shield connection D-coded



SAIS



Ordering data

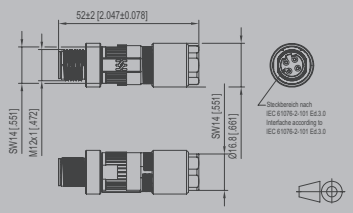
Male	
	4-pole
Note	

Type	Qty.	Order No.
SAIS-M-4S-IDC-M12-D-COD	1	**2544780000**

Technical data

Type of connection	Insulation displacement connection
Housing main material	Zinc diecast
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
Connection thread	M12
Cable diameter	5...9.7 mm
Wire cross-section, min. / max.	0.14 mm² / 0.34 mm²
Rated current	1 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Ni/Au
Note	

Dimensioned drawing



Insulation-displacement connection M8



SAIS IDC / SAIB IDC

Straight



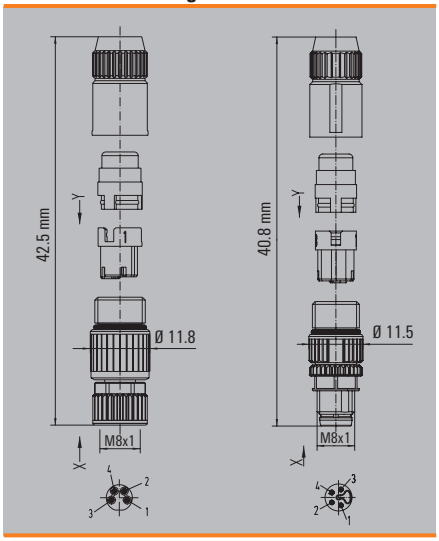
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAIS-3-IDC M8 SMALL	1	**1784040001**
	4-pole	SAIS-4-IDC M8 small	1	**1784060001**
Female				
	3-pole	SAIB-3-IDC-M8 small	1	**1784030001**
	4-pole	SAIB-4-IDC-M8 small	1	**1784050001**
Note		Other versions on request		

Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M8
Cable diameter	3.2...5.4 mm
Wire cross-section, min. / max.	0.14...0.34 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Dimensioned drawing



Crimp connection M12 with shield connection A-coded



SAISC / SAIBC

straight



SAISWC / SAIBWC

angled



Ordering data

Male			
	5-pole		
Female			
	5-pole		
Note			

Type	Qty.	Order No.
SAISC-5-18/28-4/9CG	1	**2672410000**
SAIBC-5-18/28-4/9CG	1	**2664800000**

Type	Qty.	Order No.
SAISWC-5-18/28-4/9CG	1	**2672430000**
SAIBWC-5-18/28-4/9CG	1	**2664830000**

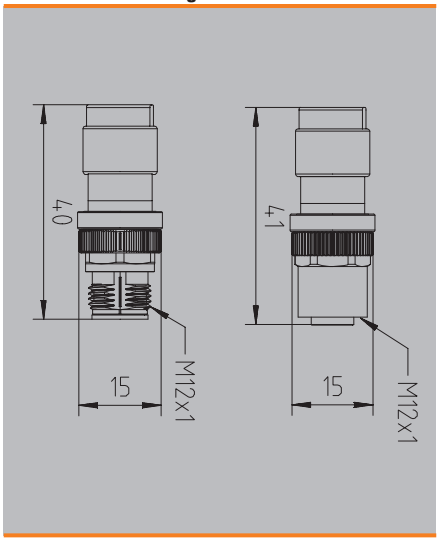
Technical data

Type of connection	Crimp connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	4...9 mm
Wire cross-section, min. / max.	0.08...0.75 mm²
Rated current	4 A
Rated voltage	50 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Note	

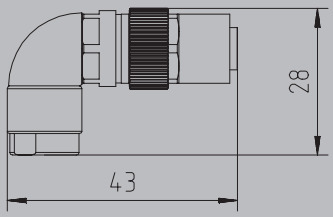
Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
50 V
-40 ... +85 ° C
IP67
Gold-plated

Crimp connection
CuZn
M12
4...9 mm
0.08...0.75 mm²
4 A
50 V
-40 ... +85 ° C
IP67
Gold-plated

Dimensioned drawing



Dimensioned drawing



Crimp connection M12 with shield connection D-coded



SAISC / SAIBC

straight





SAISC / SAIBC

Panel feed-through





Ordering data

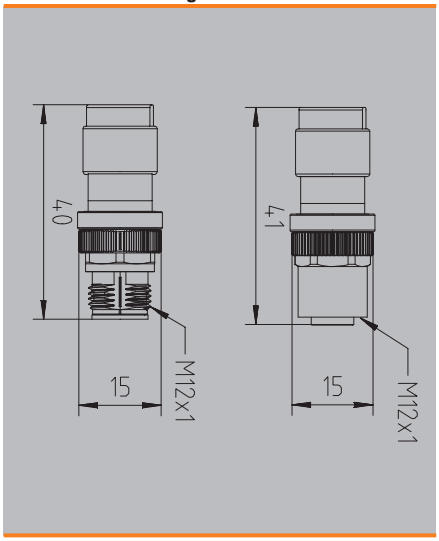
Male			
	4-pole	SAISC-D-18/28-4/9CG	1	**2664810000**
Female				
	4-pole	SAIBC-D-18/28-4/9CG	1	**2672420000**
Note				

Type	Qty.	Order No.
SAISC-WDF-D-18/28-4/9CG	1	**2664790000**
SAIBC-WDF-D-18/28-4/9CG	1	**2664780000**

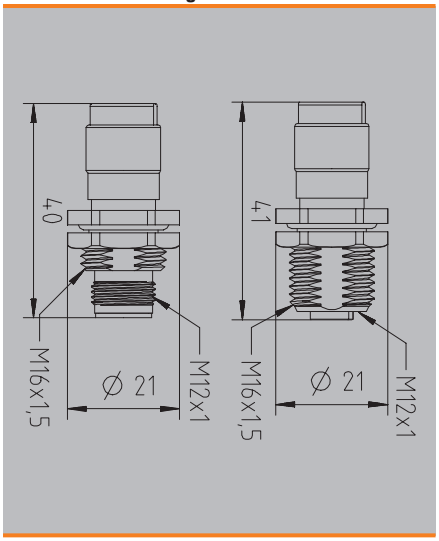
Technical data

Type of connection	Crimp connection	Crimp connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	4...9 mm	4...9 mm
Wire cross-section, min. / max.	0.08...0.75 mm²	0.08...0.75 mm²
Rated current	4 A	4 A
Rated voltage	50 V	50 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



Crimp contact M12



SAI - KSC / KBC

straight



Ordering data

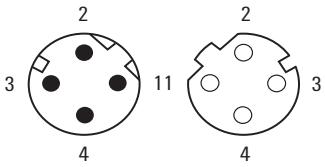
Male				
	AWG 18-20	SAI-M12-KSC-18/20	100	**2664840000**
	AWG 20-22	SAI-M12-KSC-20/22	100	**2664850000**
	AWG 22-24	SAI-M12-KSC-22/24	100	**2673710000**
	AWG 26-28	SAI-M12-KSC-26/28	100	**2673720000**
Female				
	AWG 18-20	SAI-M12-KBC-18/20	100	**2664860000**
	AWG 20-22	SAI-M12-KBC-20/22	100	**2664870000**
	AWG 22-24	SAI-M12-KBC-22/24	100	**2673730000**
	AWG 26-28	SAI-M12-KBC-26/28	100	**2673740000**
Note				

Technical data

Type of connection	
Housing main material	
Connection thread	
Cable diameter	
Wire cross-section, min. / max.	
Rated current	7 A
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	Gold-plated
Note	

M12 crimp connection
D-coded





SAISC



Ordering data

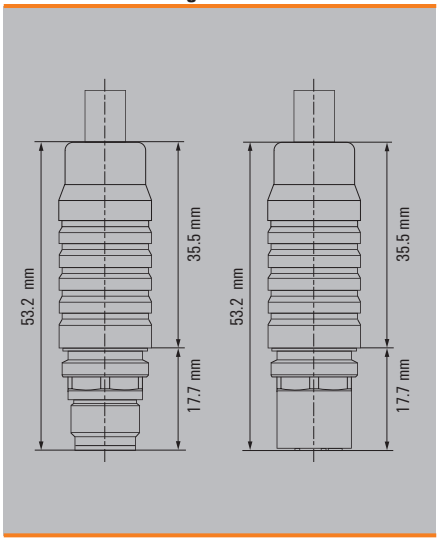
Ethernet cables			
	male	SAISC-D-RR-6.6-C5	1	1380560000
	female	SAIBC-D-RR-6.6-C5	1	1380570000
	male	SAISC-D-RR-7.3-C5	1	1380540000
	female	SAIBC-D-RR-7.3-C5	1	1380550000
	male	SAISC-D-RR-8.3-C5	1	1380580000
	female	SAIBC-D-RR-8.3-C5	1	1380590000
PROFINET cables				
	male	SAISC-D-PN-6.5-C5	1	1380610000
	female	SAIBC-D-PN-6.5-C5	1	1380620000
Note				

Female Order No.	Pin Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380550000	1380540000	D	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D	Radox Railcat CAT5 4 x 0.5 mm² XCS 8.3 mm	12585489
1380620000	1380610000	D	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Technical data

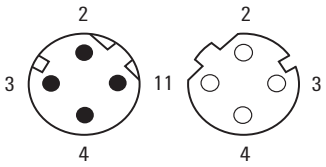
Cable glands	M 12
Coding	D
Protection degree	IP67
Number of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	0.34...0.5 mm²
Cable diameter, max.	6.5 mm
Temperature range of housing	-40 ... +85 ° C
Plugging cycles	≥ 200
Note	

Dimensioned drawing



M12 crimp connection
Panel feed-through
D-coded





SAIBC



Ordering data

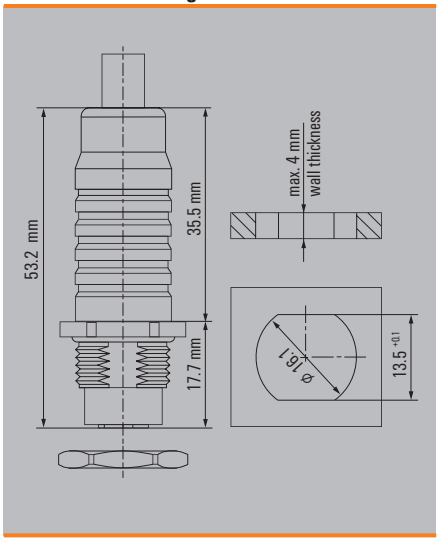
Ethernet cables			
	female	SAIBC-WDF-D-RR-6.6-C5	1	1380640000
	female	SAIBC-WDF-D-RR-7.3-C5	1	1380630000
	female	SAIBC-WDF-D-RR-8.3-C5	1	1380650000
PROFINET cables				
	female	SAIBC-WDF-D-PN-6.5-C5	1	1380670000
Note				

Female Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D	Radox Railcat Databus CAT5, 7.3 mm	12568935
1380640000	D	Radox Railcat, CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D	Radox Railcat CAT5 4 x 0.5 mm² XCS 8.3 mm	12585489
1380670000	D	PROFINET, 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Technical data

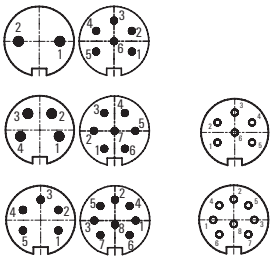
Cable glands	M 16
Coding	D
Protection degree	IP67
Number of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	0.34...0.5 mm²
Cable diameter, max.	
Temperature range of housing	-40 ... +85 ° C
Plugging cycles	≥ 200
Note	

Dimensioned drawing



M16 solder connection





Male Female

SAIS

Male



SAIB

Female



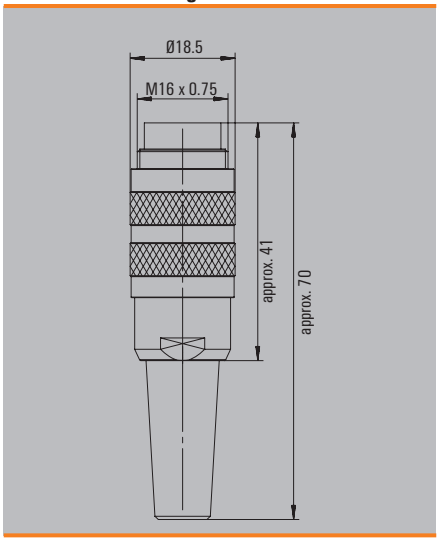
Ordering data

	SAIS			SAIB		
	Type	Qty.	Order No.	Type	Qty.	Order No.
2-pole. PG 9	SAIS-M16-2/9	1	1321700000	SAIB-M16-2/9	1	1321690000
4-pole. PG 9	SAIS-M16-4/9	1	1117970000	SAIB-M16-4/9	1	1117960000
5-pole. PG 9	SAIS-M16-5/9	1	1117990000	SAIB-M16-5/9	1	1117980000
6-pole. PG 9	SAIS-M16-6/9	1	1304390000	SAIB-M16-6/9	1	1304400000
7-pole. PG 9	SAIS-M16-7/9	1	1118010000	SAIB-M16-7/9	1	1118000000
8-pole. PG 9	SAIS-M16-8/9	1	1304430000	SAIB-M16-8/9	1	1304450000
12-pole. PG 9	SAIS-M16-12/9	1	1548810000	SAIB-M16-12/9	1	1548830000
16-pole. PG 9	SAIS-M16-16/9	1	1548820000	SAIB-M16-16/9	1	1548840000
Note						

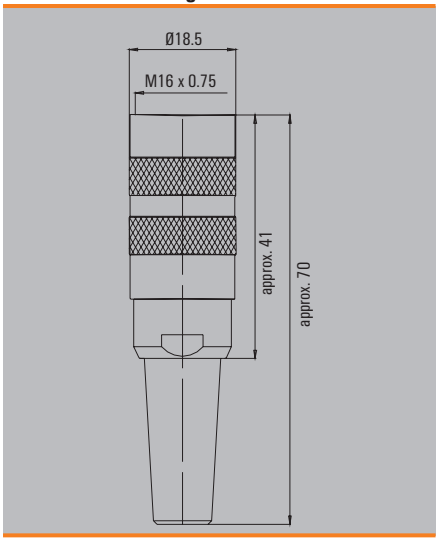
Technical data

	SAIS	SAIB
Type of connection	Solder connection	Solder connection
Housing main material	PA	PA
Connection thread	M16	M16
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole)	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8-pole)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP40	IP40
Contact surface	Ag (silver)	Ag (silver)
Note		

Dimensioned drawing



Dimensioned drawing

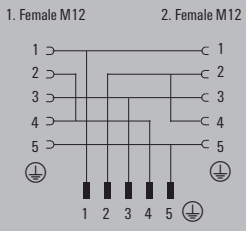


Y-distributor

M12/M12

Mounting screw M3, Distribution, pin 2 + 4 bridged





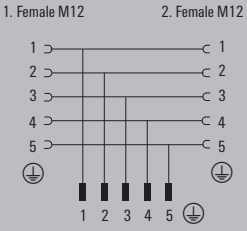
Ordering data

Type	Qty.	Order No.
SAI-Y-5S B2-4 2M12	1	**1783410000**
Other versions on request		

M12/M12

Mounting screw M3, Parallel distribution





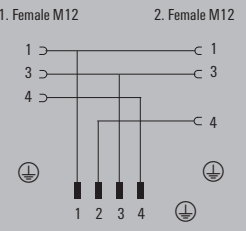
Ordering data

Type	Qty.	Order No.
SAI-Y-5S PARA 2M12	1	**1783430000**
Other versions on request		

M12/M12

Mounting screw M3





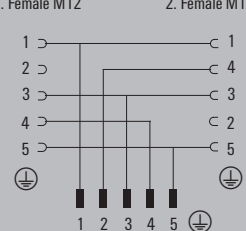
Ordering data

Type	Qty.	Order No.
SAI-Y-4S-M12/M12	1	**1060730000**
Other versions on request		

M12/M12

Mounting screw M3, Individual distribution





Ordering data

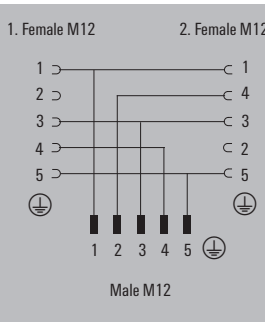
Type	Qty.	Order No.
SAI-Y-5S- M12/M12	1	**1826880000**
Other versions on request		

Y-distributor

M12/M12

Mounting screw M4





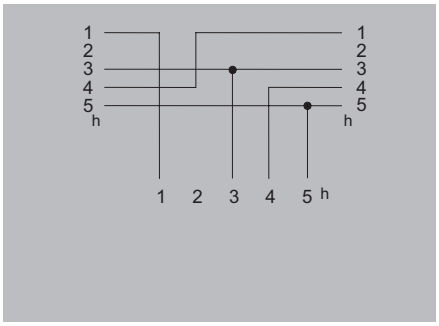
Ordering data

Type	Qty.	Order No.
SAI-Y-5S M12/M12 2Bo	1	1881710000
Other versions on request		

M12/M12

And-Conjunction, Mounting screw M3





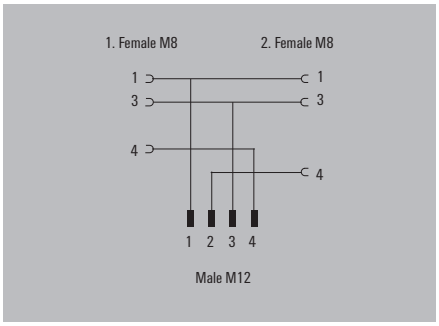
Ordering data

Type	Qty.	Order No.
SAI-Y-5 AND 2M12	1	1515140000

M12/M8

Mounting screw M3, Parallel distribution





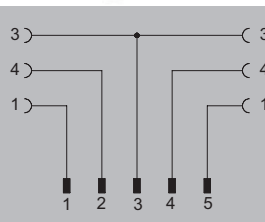
Ordering data

Type	Qty.	Order No.
SAI-Y-4-4/2-4 M12/8	1	1783420000
Other versions on request		

M12/M8

Mounting screw M3



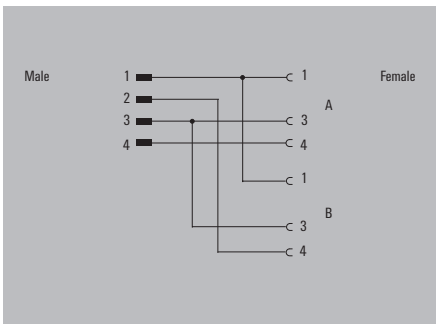


Ordering data

Type	Qty.	Order No.
SAI-Y-5-SO M12/8	1	1771290000

M8/M8



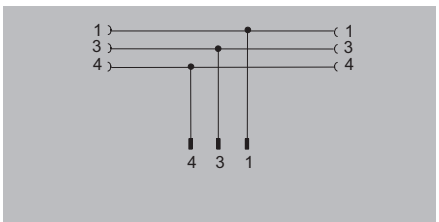


Ordering data

Type	Qty.	Order No.
SAI Y-4S M8-M8	1	1805660000
Other versions on request		

M8/M8





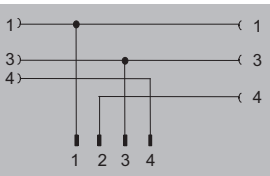
Ordering data

Type	Qty.	Order No.
SAI-Y-3/3 M8-M8	1	1524700000

Y-distributor

M8/M8



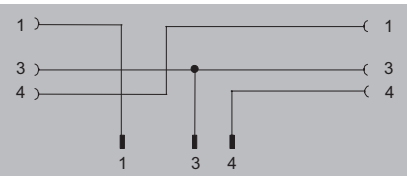


Ordering data

Type	Qty.	Order No.
SAI-Y-4/3 M8-M8	1	1524720000

M8/M8





Ordering data

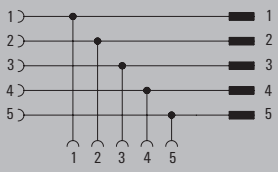
Type	Qty.	Order No.
SAI-Y-3/3 M8-M8 U	1	1550620000

T distributor

M12/M12

CANopen





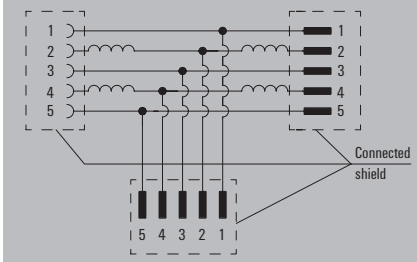
Ordering data

Type	Qty.	Order No.
SAI-T-5S-PARA	1	**1009370000**

M12/M12

PROFIBUS





Ordering data

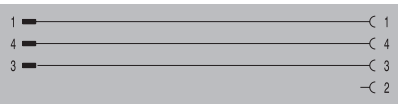
Type	Qty.	Order No.
SAI-T-5-M12/M12 B-COD	1	**1057940000**

Adapters

M8/M8

M8 Male 3-poles - M8 Female 4-poles





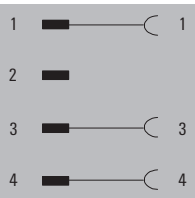
Ordering data

Type	Qty.	Order No.
SAI-ADAPTER-M8/M8-3P/4P	1	1288000000

M8/M8

M8 Male 4-poles - M8 Female 3-poles





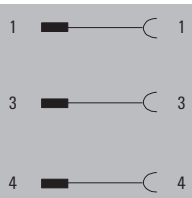
Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M8 4/3P	1	1990570000

M8/M12

M8 Male 3-poles - M12 Female 3-poles





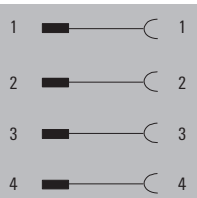
Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M12 3P	1	1473460000

M8/M12

M8 Male 4-poles - M12 Female 4-poles





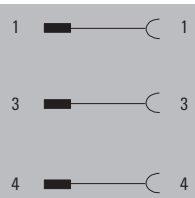
Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M8/M12 4P	1	1990540000

M12/M8

M12 Male 3-poles - M8 Female 3-poles





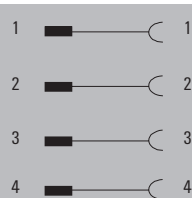
Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M12/M8 3P	1	1990550000

M12/M8

M12 Male 4-poles - M8 Female 4-poles





Ordering data

Type	Qty.	Order No.
SAI-ADAPT-M12/M8 4P	1	1990560000

Panel feed-through
A-coded
B-coded

SAI-WDF
A-coded



SAI-WDF
B-coded



Ordering data

Type	Qty.	Order No.
SAI-WDF 5P M12 K	1	2427060000

Note

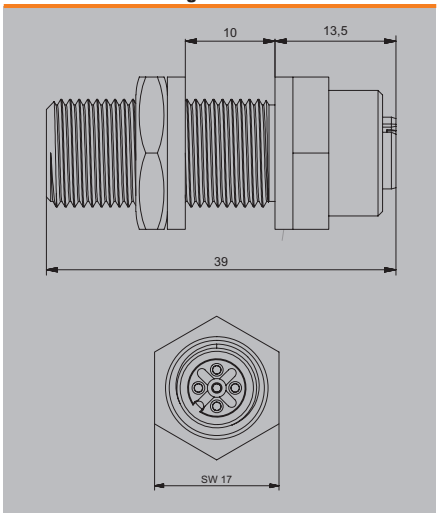
Type	Qty.	Order No.
SAI-WDF 5P B M12 K	1	2485310000

Technical data

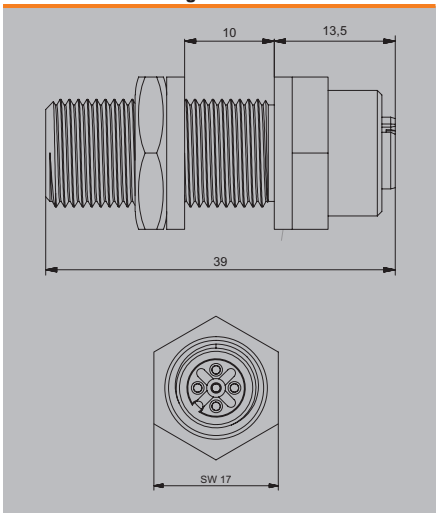
Type of connection	Screw	Screw
Housing main material	CuZn	CuZn
Connection thread	M12 socket, M12 plug	M12 socket, M12 plug
Cable diameter		
Wire cross-section, min. / max.		
Rated current	2 A	2 A
Rated voltage	60 V	60 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
AF size	SW 17	SW 17
Contact surface	Gold-plated	Gold-plated

Note

Dimensioned drawing



Dimensioned drawing



Protective caps for SAI distributors

Protects against external effects when the I/O is not in use.
The level of protection is only valid in screwed condition and was tested on the distributor indicated.

Protective cap M5

For SAI M5 distributors.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK M5	50	**1855310000**

Protective cap M8

For SAI M8 distributors.
IP 68



Ordering data

Type	Qty.	Order No.
SAI-SK M8	50	**1802760000**

Protective cap M12

For SAI M12 distributors.
IP 68



Ordering data

Type	Qty.	Order No.
SAI-SK-M12	30	**9456050000**

Protective cap M12

For SAI metal distributors.
IP 68



Ordering data

Type	Qty.	Order No.
SAI-SK M12 MT	30	**1802750000**

Protective cap M12 IDC

For SAI distributors with IDC connection.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12 IDC	10	**1794850000**

Protective cap M12 Universal

Suitable for SAI M12 - universal distributor and appropriate M12 cables.
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12-UNI 2029	20	**2330260000**

Protective cap M12 connector

Protection from external influences. For open plugs.
For attaching to cable
IP 67



Ordering data

Type	Qty.	Order No.
SAI-SK-M12 BU	1	**8425960000**

Protective cap M12 connector

Protects against external effects. For open plugs or sockets.
IP 20



Ordering data

Type	Qty.	Order No.
SAI-SK STECKER M12	50	**1781520000**

M12, M8, M5 built-in plugs

For connection of cables to sensors and actuators, different built-in connectors are needed at the device end.

M12



M12 plug in connectors are available with the following numbers of poles: 4 to 5-pole and 8-pole. Built-in connectors for M12 connections are all A-coded and have individual leads of 0.5 m. Fixing of the FP version is achieved with the supplied locknut. Also available are built-in connectors that can be screwed in from the front.

M8



M8 connector requirements are covered by the 3 and 4 pole built-in male and female connectors. Like the M12 built-in connectors, these have a locknut for fastening into a housing wall. These connectors have 0.5m long leads attached.

M5



Weidmüller also offers corresponding built-in connectors for the smallest of the plug in connectors, the M5. The M5 built-in connector is available in 3 and 4 pole versions. This plug in connector also has a locknut. The individual lead length with M5 built-in connectors is 0.2 m.

The cross sections of the individually attached leads are available from the technical data of the various families of plug in connectors.

A-coded

M12 (M16)

SAIE-M12



M12 (M16)

SAIE-M12 FP



Ordering data

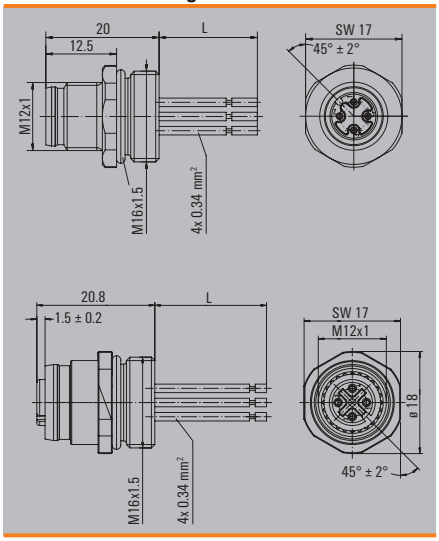
Male	Type	Qty.	Order No.
4-pole	SAIE-M12S-4-0.5U-M16	1	1861090000
5-pole	SAIE-M12S-5-0.5U-M16	1	1861230000
8-pole	SAIE-M12S-8-0.5U-M16	1	1861110000
12-pole			
Female			
4-pole	SAIE-M12B-4-0.5U-M16	1	1861120000
5-pole	SAIE-M12B-5-0.5U-M16	1	1836910000
8-pole	SAIE-M12B-8-0,5U-M16	1	1861140000
12-pole			
Note	Other versions on request		

Type	Qty.	Order No.
SAIE-M12S-4-0.5U-FP-M16	1	1861160000
SAIE-M12S-5-0.5U-FP-M16	1	1861170000
SAIE-M12S-8-0.5U-FP-M16	1	1861180000
SAIE-M12S-12-0.5U-FP-M16	1	1283550000
SAIE-M12B-4-0.5U-FP-M16	1	1861190000
SAIE-M12B-5-0.5U-FP-M16	1	1856110000
SAIE-M12B-8-0.5U-FP-M16	1	1861210000
SAIE-M12B-12-0.5U-FP-M16	1	1289140000
FP with M16 cable gland FP = can be positioned as required		

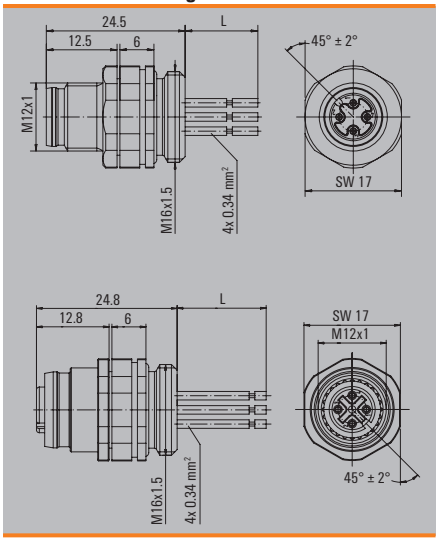
Technical data

Cable glands	M 16	M 16
Housing main material	Brass, nickel-plated	Brass, nickel-plated
Connection thread	M12	M12
Wire cross section	0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)	0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)
Rated current	4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)	4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)	250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)
Temperature range of housing	-30...+90 °C	-30...+90 °C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



Built-in plugs

A-coded

M12 (PG 9)

SAIE-M12 PG



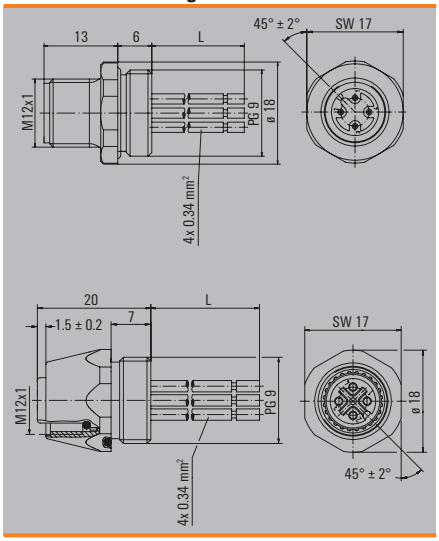
Ordering data

Male		Type	Qty.	Order No.
	4-pole	SAIE-M12S-4-0.5U-PG9	1	**1861220000**
	5-pole	SAIE-M12S-5-0.5U-PG9	1	**1856120000**
	8-pole	SAIE-M12S-8-0.5U-PG9	1	**1861240000**
Female				
	4-pole	SAIE-M12B-4-0.5U-PG9	1	**1861250000**
	5-pole	SAIE-M12B-5-0.5U-PG9	1	**1814890000**
	8-pole	SAIE-M12B-8-0.5U-PG9	1	**1861270000**
Note		with PG cable gland		

Technical data

Cable glands	PG 9
Housing main material	Brass, nickel-plated
Connection thread	M12
Wire cross section	0.34 (4- and 5-pole)/ 0.25 (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole) / 60 V (8-pole)
Temperature range of housing	-30...+90 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 (FP)

SAIE-M8S



M8 (HW)

SAIE-M8S



Ordering data

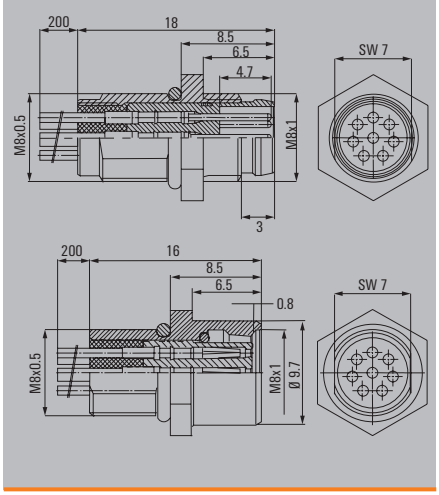
Male	Type	Qty.	Order No.
8-pole	SAIE-M8S-8-0.2U-FP	1	1467590000
Female			
8-pole	SAIE-M8B-8-0.2U-FP	1	1467630000
Note			

Type	Qty.	Order No.
SAIE-M8S-8-0.2U-HW	1	1467620000
SAIE-M8B-8-0.2U-HW	1	1467640000

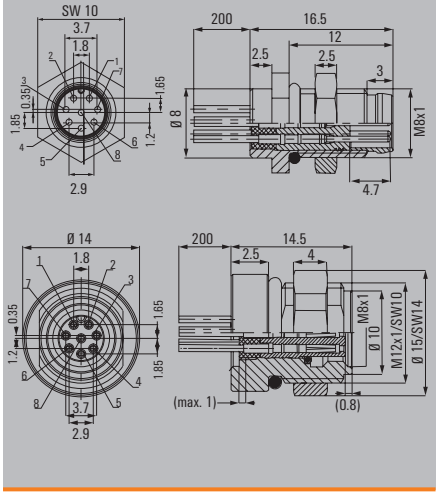
Technical data

Cable glands	M 8	M 8
Housing main material	Brass, nickel-plated	Brass, nickel-plated
Connection thread	M8 thread	M8 thread
Core cross-section	0.14 mm²	0.14 mm²
Rated current	1.5 A	1.5 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V	30 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



M8 (LP)

SAIE-M8S





Ordering data

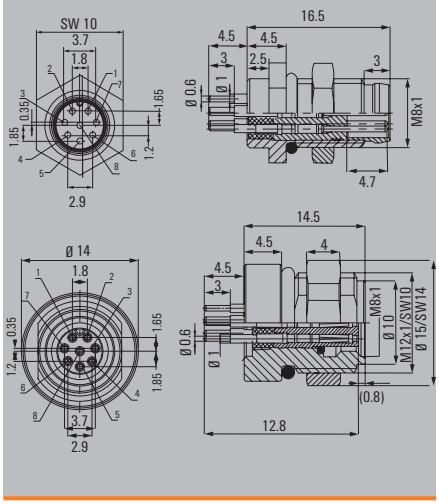
Male	
	8-pole
Female	
	8-pole
Note	

Type	Qty.	Order No.
SAIE-M8S-8-TL-HW	20	**1467610000**
SAIE-M8B-8-TL-HW	1	**1467650000**

Technical data

Cable glands	M 8
Housing main material	Brass, nickel-plated
Connection thread	M8 thread
Core cross-section	
Rated current	1.5 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8

SAIE-M8R FP (snap-on interlock)



M8

SAIE-M8 FP



Ordering data

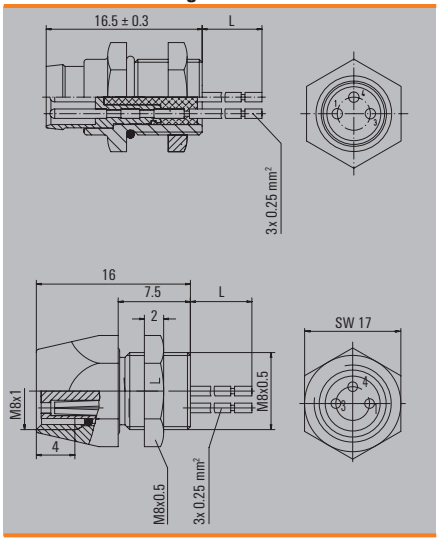
Male	Type	Qty.	Order No.
3-pole	SAIE-M8R-3-0.5U-FP-M8	1	1861280000
4-pole	SAIE-M8R-4-0.5U-FP-M8	1	1861290000
Female			
3-pole			
4-pole			
Note	Fixing nut included FP = can be positioned as required		

Type	Qty.	Order No.
SAIE-M8S-3-0.5U-FP-M8	1	1078730000
SAIE-M8S-4-0.5U-FP-M8	1	1078720000
SAIE-M8B-3-0.5U-FP-M8	1	1856130000
SAIE-M8B-4-0.5U-FP-M8	1	1856140000
Fixing nut included FP = can be positioned as needed		

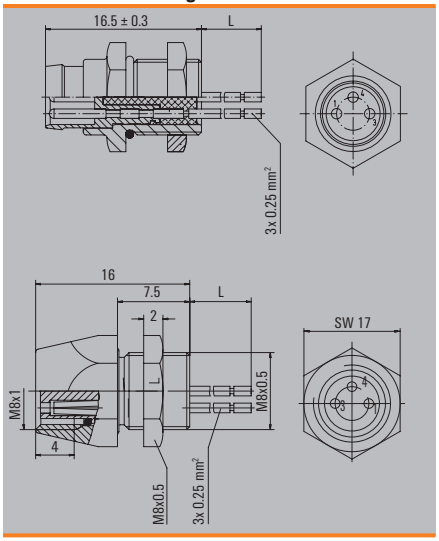
Technical data

Cable glands	M 8	M 8
Housing main material	Brass, nickel-plated	Brass, nickel-plated
Connection thread	M8 snap	M8 thread
Core cross-section	0.25 mm²	0.25 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-pole)	60 V (3-pole) / 30 V (4-pole)
Temperature range of housing	-30...+90 °C	-30...+90 °C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



M5

SAIE-M5



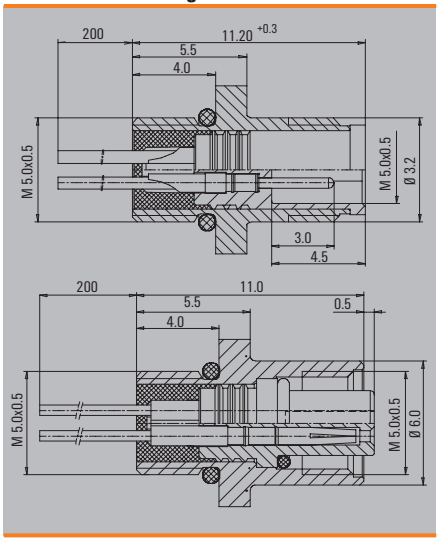
Ordering data

Male		Type	Qty.	Order No.
	3-pole	SAIE-M5S-3-0.2U	1	**1873050000**
	4-pole	SAIE-M5S-4-0.2U	1	**1873030000**
Female				
	3-pole	SAIE-M5B-3-0.2U	1	**1873060000**
	4-pole	SAIE-M5B-4-0.2U	1	**1873040000**
Note		Fixing nut included		

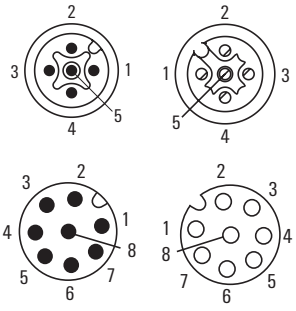
Technical data

Cable glands	M 5
Housing main material	Brass, nickel-plated
Connection thread	M5
Core cross-section	0.14 mm²
Rated current	1 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V
Temperature range of housing	-25...+80 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Approvals	EAC
Note	

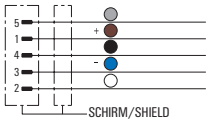
Dimensioned drawing

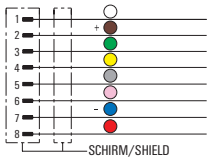


M12, open on one side
A-coded
shielded
Back panel mounting









Ordering data

		5-pole	8-pole	
Male, straight				
PUR	0.5 m	SAIE-M12S-5S0.5U HW **1341230050**	SAIE-M12S-8S0.5U HW **1341240050**	
PUR	2.0 m	SAIE-M12S-5S2.0U HW **1341230200**	SAIE-M12S-8S2.0U HW **1341240200**	
Female, straight				
PUR	0.5 m	SAIE-M12B-5S0.5U HW **1222270050**	SAIE-M12B-8S0.5U HW **1223650050**	
PUR	2.0 m	SAIE-M12B-5S2.0U HW **1222270000**	SAIE-M12B-8S2.0U HW **1223650000**	
Note				

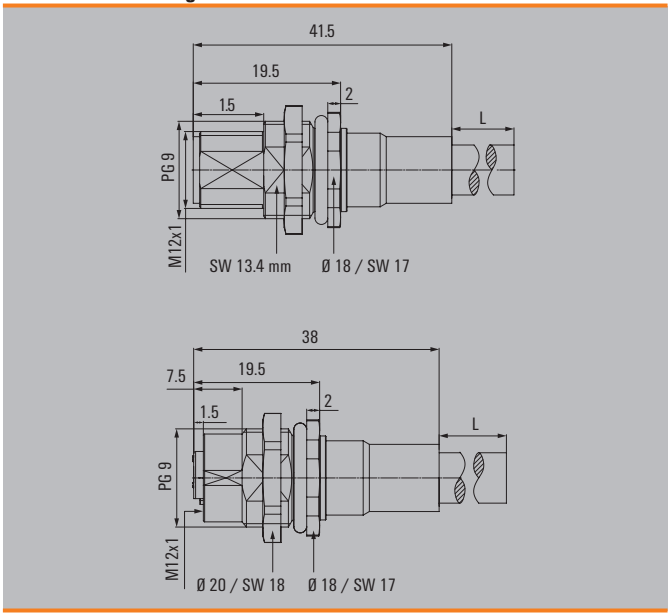
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cable glands	PG 9
Housing main material	Zinc diecast, nickel-plated
Connection thread	M12
Core cross-section	0.25 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-5 ... +70 °C
Protection degree	IP68
Contact surface	Gold-plated

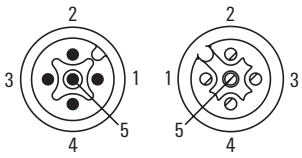
Dimensioned drawing



Built-in plugs

A-coded

M12



Male Female



Ordering data

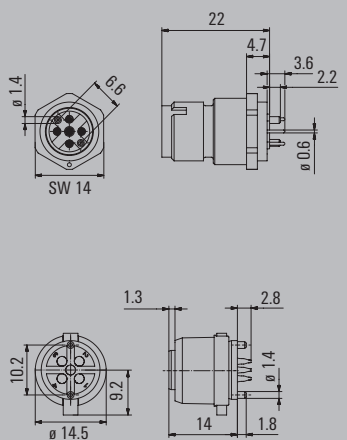
Male			
	5-pole		
Female			
	5-pole		
Note			

Type	Qty.	Order No.
SAIE-M12S-5-TL	10	**1312980000**
SAIE-M12B-5-TL	20	**1312970000**

Technical data

Housing main material	CuZn
Connection thread	M12
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	
Protection degree	IP68
Contact surface	Gold-plated
Approvals	EAC
Note	

Dimensioned drawing



M12

SAIE-M12S



M12

SAIE-M12S



Ordering data

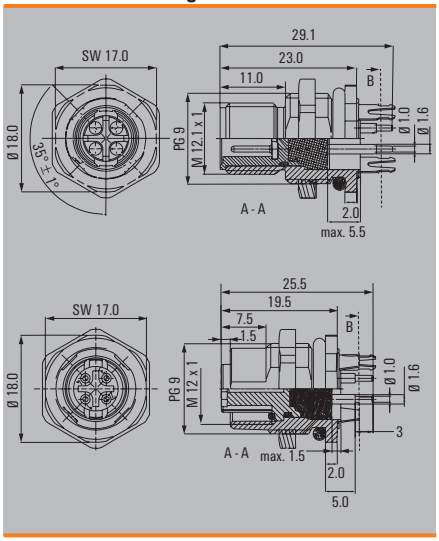
Male	Type	Qty.	Order No.
4-pole	SAIE-M12S-4S-TL-HW-PG9	10	1467710000
5-pole	SAIE-M12S-5S-TL-HW-PG9	20	1467720000
8-pole	SAIE-M12S-8S-TL-HW-PG9	20	1467730000
12-pole	SAIE-M12S-12S-TL-HW-PG9	20	1467740000
Female			
4-pole	SAIE-M12B-4S-TL-HW-PG9	20	1467770000
5-pole	SAIE-M12B-5S-TL-HW-PG9	20	1467780000
8-pole	SAIE-M12B-8S-TL-HW-PG9	20	1467790000
12-pole	SAIE-M12B-12S-TL-HW-PG9	20	1467810000
Note			

Type	Qty.	Order No.
SAIEW-M12S-4S-TL-HW-PG9	15	1467750000
SAIEW-M12S-5S-TL-HW-PG9	15	1467760000
SAIEW-M12B-4S-TL-HW-PG9	15	1467820000
SAIEW-M12B-5S-TL-HW-PG9	15	1467830000

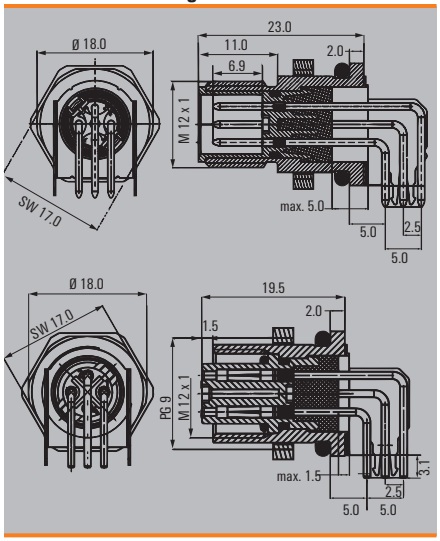
Technical data

Housing main material	Zinc diecast	Zinc diecast
Connection thread	M12	M12
Rated current	2 A	4 A
Rated voltage	30 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when fully mounted	IP67, when fully mounted
Contact surface	Gold-plated	Gold-plated
Approvals	EAC	EAC
Note		

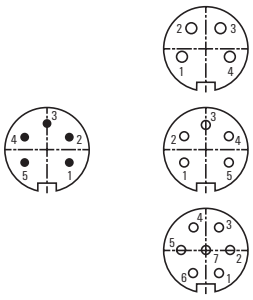
Dimensioned drawing



Dimensioned drawing



M16 solder connection



SAIE



SAIE



Ordering data

Male			
	5-pole. PG 9		
Female			
	4-pole		
	5-pole		
	7-pole		
Note			

Type	Qty.	Order No.
SAIE-M16S-5-HWM	1	**1269790000**

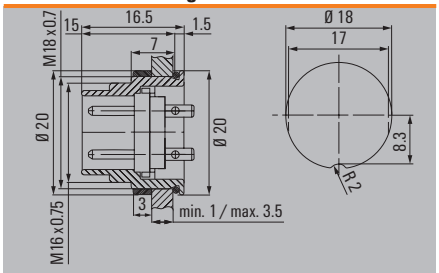
Type	Qty.	Order No.
SAIE-M16B-4-L	20	**1326720000**
SAIE-M16B-5-L	20	**1326730000**
SAIE-M16B-7-L	20	**1326740000**

Technical data

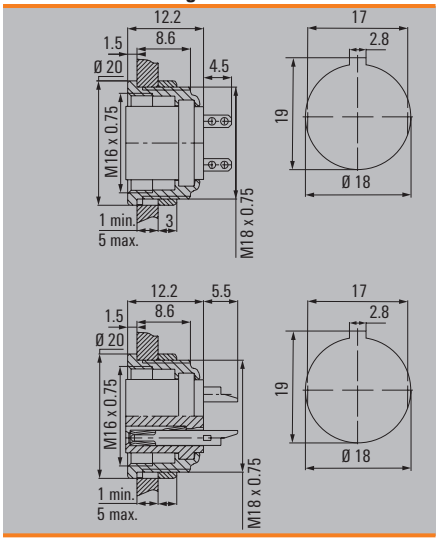
Cable glands	M 18
Type of connection	Solder connection
Housing main material	Zinc diecast, nickel-plated
Connection thread	M16
Wire cross-section, min. / max.	0.14...0.75 mm²
Rated current	6 A
Rated voltage	250 V
Temperature range of housing	-30...+90 °C
Protection degree	IP67, when screwed in
Contact surface	Ag (silver)
Note	

M 18
Solder connection
Zinc diecast, nickel-plated
M16
0.14...0.75 mm²
6 A
250 V
-40 ... +85 ° C
IP40
Ag (silver)

Dimensioned drawing



Dimensioned drawing



Introduction



Valve plugs for custom cables are often incorporated when designing special machines. Such plugs are used to connect solenoid valves.

Weidmüller valve plugs are available in all customary forms.
The range includes form A, form B and form C to industry standards and to DIN.

These valve plugs are available with and without circuitry in 3-pole and 4-pole versions. A flat gasket seal is included which, when screwed on, guarantees IP 65 protection.

Legend

Designation code	
VS-	Valve plug
OB-	Without cables
3P, 4P-	No. of poles
7, 9, 11-	Cable entry (PG)
H	High form
T	Transparent housing
3P	2 + PE
4P	3 + PE
LD	Light-emitting diode (LED)

Type of valve plug	Contact gap	
A	18.0 mm	
B	11.0 mm	to industry standard
BD	10.0 mm	to DIN
C	9.4 mm	to industry standard
CD	8.0 mm	to DIN

Design type A
with protective circuit

SAIB-VSA



SAIB-VSA



Ordering data

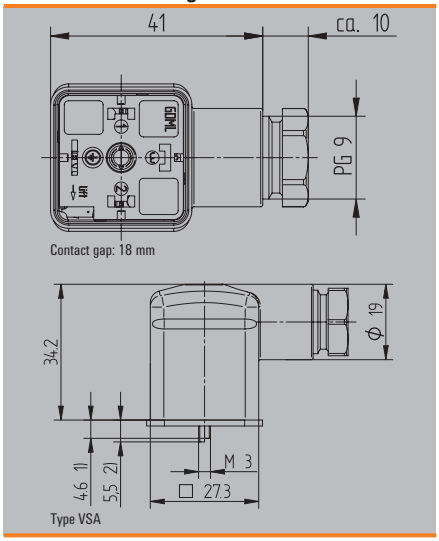
PG9 cable passage	Type	Qty.	Order No.
3-pole	SAIB-VSA-3P/250/9-OB	1	**1873070000**
4-pole	SAIB-VSA-4P/250/9-OB	1	**1873080000**
PG11 cable passage			
3-pole	SAIB-VSA-3P/250/11-OB	1	**1873090000**
4-pole	SAIB-VSA-4P/250/11-OB	1	**1873100000**
Note			

Type	Qty.	Order No.
SAIB-VSA-3P/230/9-H/OB	1	**1873130000**
SAIB-VSA-4P/230/9-H/OB	1	**1873140000**
SAIB-VSA-3P/230/11-H/OB	1	**1873150000**
SAIB-VSA-4P/230/11-H/OB	1	**1873160000**

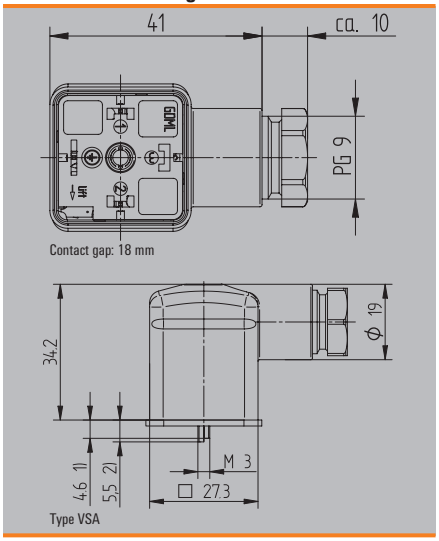
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA 6 GF	PA 6 GF
Coding	Design A (18 mm)	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm²	0.34...1.5 mm²
Rated current	10 A	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	230 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP65	IP65
Contact surface	Ni	Ni
Note		

Dimensioned drawing



Dimensioned drawing



Valve plugs for custom assembly

Design type A
with protective circuit

SAIB-VSA
with Free-wheel diode, 24 V



SAIB-VSA
with Varistor, 230 V



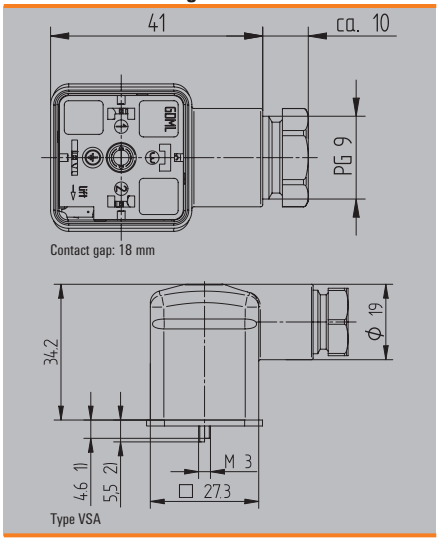
Ordering data

PG9 cable passage	Type	Qty.	Order No.	Type	Qty.	Order No.
3-pole	SAIB-VSA-3P/24/9/LD	1	1873120000	SAIB-VSA-3P/230/9/LD	1	1873110000
4-pole						
PG11 cable passage						
3-pole						
4-pole						
Note						

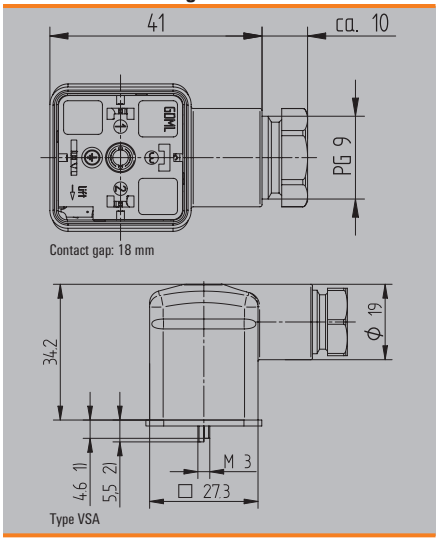
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA 6 GF	PA 6 GF
Coding	Design A (18 mm)	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm²	0.34...1.5 mm²
Rated current	10 A	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)		230 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP65	IP65
Contact surface	Ni	Ni
Note		

Dimensioned drawing



Dimensioned drawing



Design type B

SAIB-VSB

without protective circuit



SAIB-VSB

with Free-wheel diode, 24 V



Ordering data

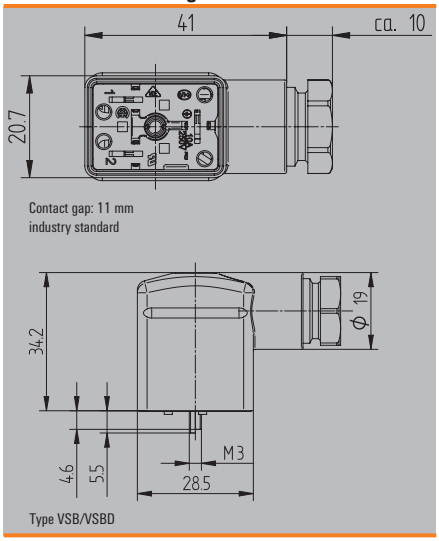
PG9 cable passage	Type	Qty.	Order No.
3-pole	SAIB-VSB-3P/250/9-OB	1	1873170000
Note			

Type	Qty.	Order No.
SAIB-VSB-3P/24/9/LD	1	1873180000

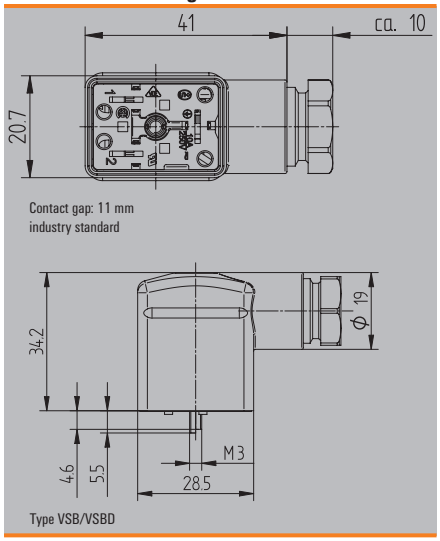
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA 6 GF	PA 6 GF
Coding	Industrial design B (11 mm)	Industrial design B (11 mm)
Cable diameter	6...8 mm (PG9)	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm²	0.34...1.5 mm²
Rated current	10 A	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	24 V DC
Temperature range of housing	-25...+85 °C	-25...+85 °C
Protection degree	IP65	IP65
Contact surface	Ni	Ni
Note		

Dimensioned drawing



Dimensioned drawing



Valve plugs for custom assembly

Design type BD
without protective circuit

SAIB-VSBD



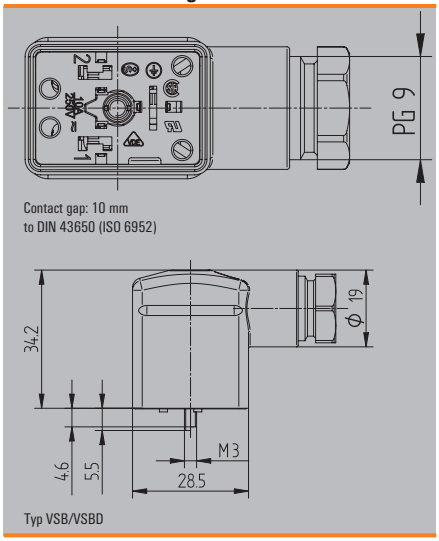
Ordering data

PG9 cable passage	Type	Qty.	Order No.
3-pole	SAIB-VSBD-3P/250/9-OB	1	1873190000
Note			

Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	DIN design B (10 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Design type C/CD
without protective circuit

SAIB-VSC



SAIB-VSCD



Ordering data

PG7 cable passage	Type	Qty.	Order No.
3-pole	SAIB-VSC-3P/250/7-0B	1	1873200000
4-pole	SAIB-VSC-4P/250/7-0B	1	1873210000

PG7 cable passage	Type	Qty.	Order No.
3-pole	SAIB-VSCD-3P/250/7-0B	1	1873220000
4-pole	SAIB-VSCD-4P/250/7-0B	1	1873230000

Note

Technical data

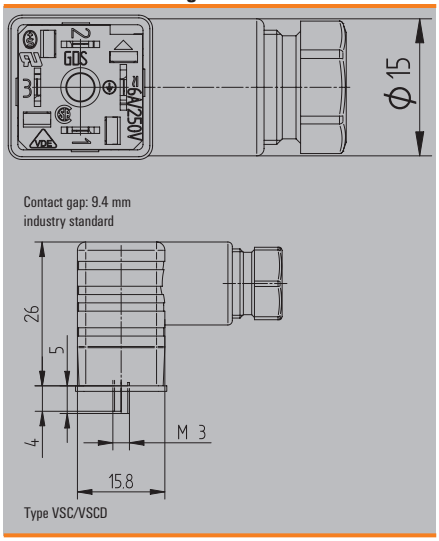
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design C (9.4 mm)
Cable diameter	4...6 mm
Connection cross-section min. / max.	0.34...1.5 mm²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni

Note

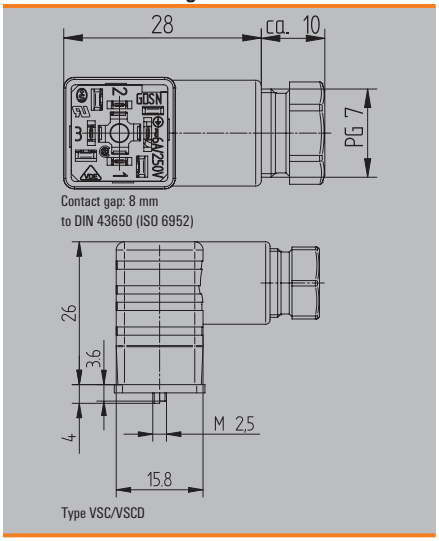
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	DIN design C (8 mm)
Cable diameter	4...6 mm
Connection cross-section min. / max.	0.34...1.5 mm²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni

Note

Dimensioned drawing



Dimensioned drawing



Protective sleeve adapter



In machine construction, it is very common for cables to be run in the open air. To be able to protect cables from damage through a wide range of causes such as rodents, it is some-times necessary to protect the cable with a protective sleeve.

To fasten the protective sleeve to a plug in connector designed for custom assembly, Weidmüller offers a protective sleeve adapter. This adapter is used instead of the PG7 cable gland. The protective sleeve is quick to fit, protecting the cable straight away.

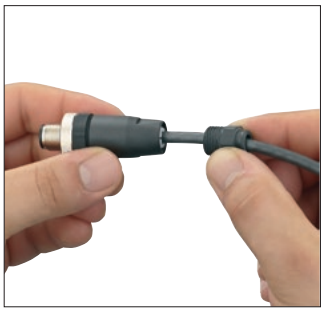
Ordering data

Type	Qty.	Order No.
SAI-SSA-PG7	10	1938300000

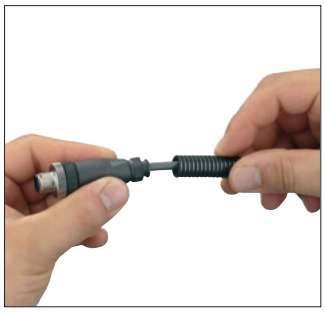
Fitting a protective sleeve adapter



1. Unscrewing the PG7 cable gland



2. Screwing on the protective sleeve adapter

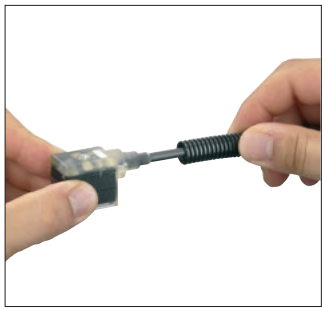


3. Fitting a PG7 protective sleeve

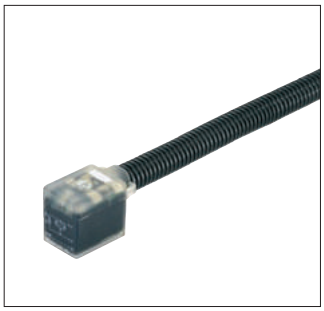


4. Finished

Connection of protective sleeve adapter to other plug connectors



1. Connect the protective tubing to the tube union



2. Finished

The protective sleeve is also suitable for protecting cables with valve plugs. A corresponding connecting piece is already present on valve plugs with moulded seal.

M12 POWER (A-, S-, K-, L- and T-coded)

M12 POWER (A-, S-, K-, L- and T-coded)	Introduction	D.2
	Sensor cables	D.4
	Customisable plug-in connectors	D.14
	Customisable panel feed-through	D.20
	Built-in plug	D.22
	Device connector	D.25
	T, h and H distributors	D.27
	M12 distributor	D.28
	M12 power distributor	D.30

M12 POWER (A-, S-, K-, L- and T-coded)

Your peripheral devices should be supplied with greater power. We offer small solutions with lots of power, just for this scenario. Let's connect.

Due to the increasing complexity of automation, the equipment for machinery and systems today needs a greater power supply - in excess of 250 V and 2 A.

Our new M12 plug-in connectors can handle such high power transmissions with no problems. The compact S- and T-coded M12 plug-in connectors are designed for the transmission of up to 630 V AC or 60 V DC and 12 A; K- and L-coded plug-in connectors can be used for 630 V AC and 16 A or 60 V DC and 16 A.

Enjoy the benefits of having the maximum space available for the planning and wiring of your machinery and systems. Let's connect.





Securely coded

S-coded M12 plug-in connectors come with three poles and an advanced PE contact. The T-coded variants have four poles of equal length. Neither system is compatible with other M12 solutions.



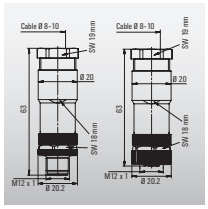
High performance data

With the transmission of 12 A and 630 V AC or 60 V DC, our M12 plug-in connectors bring more power to your IP 6x peripherals.



Simple assembly

The screw connection for the conductor makes connecting on site problem-free.



Small dimensions

The compact size of our M12 plug system helps you set up space-saving field wiring systems.



Connectors
Screw connection



Panel feed-through
Screw connection



Built in connectors

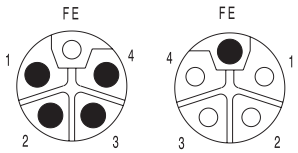


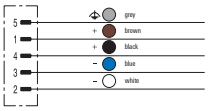
Distributors

Sensor cables

One end without connector
M12
L-coded







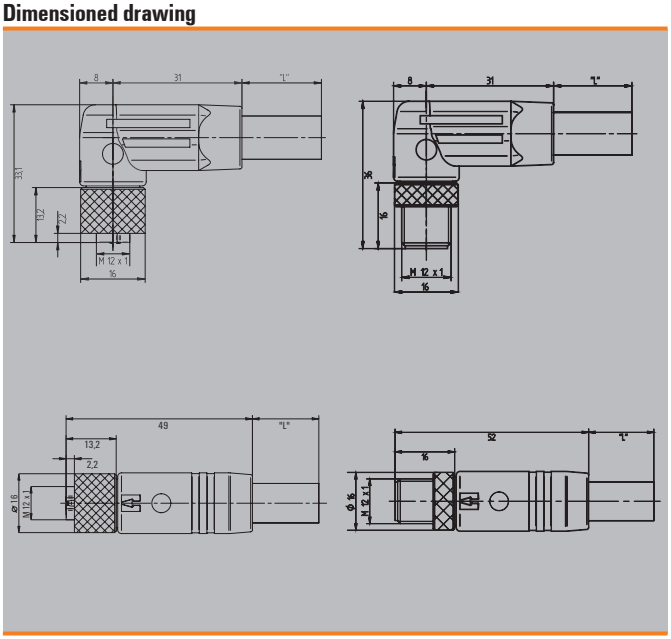
Ordering data

		5-pole
Male, straight		
PUR halogen-free	1.5 m	SAIL-M12G-L-1.5PGR **2455220150**
PUR halogen-free	3.0 m	SAIL-M12G-L-3.0PGR **2455220300**
PUR halogen-free	5.0 m	SAIL-M12G-L-5.0PGR **2455220500**
PUR halogen-free	10.0 m	SAIL-M12G-L-10PGR **2455221000**
Male, angled		
PUR halogen-free	1.5 m	SAIL-M12W-L-1.5PGR **2455240150**
PUR halogen-free	3.0 m	SAIL-M12W-L-3.0PGR **2455240300**
PUR halogen-free	5.0 m	SAIL-M12W-L-5.0PGR **2455240500**
PUR halogen-free	10.0 m	SAIL-M12W-L-10PGR **2455241000**
Female, straight		
PUR halogen-free	1.5 m	SAIL-M12BG-L-1.5PGR **2455330150**
PUR halogen-free	3.0 m	SAIL-M12BG-L-3.0PGR **2455330300**
PUR halogen-free	5.0 m	SAIL-M12BG-L-5.0PGR **2455330500**
PUR halogen-free	10.0 m	SAIL-M12BG-L-10PGR **2455331000**
Female, angled		
PUR halogen-free	1.5 m	SAIL-M12BW-L-1.5PGR **2455200150**
PUR halogen-free	3.0 m	SAIL-M12BW-L-3.0PGR **2455200300**
PUR halogen-free	5.0 m	SAIL-M12BW-L-5.0PGR **2455200500**
PUR halogen-free	10.0 m	SAIL-M12BW-L-10PGR **2455201000**
Note		

Technical data

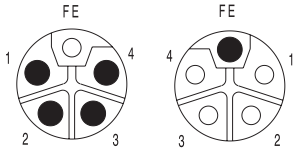
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	50 V
Approvals	cULus

Dimensioned drawing

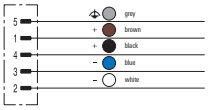


Connecting cables
M12
L-coded





Male Female



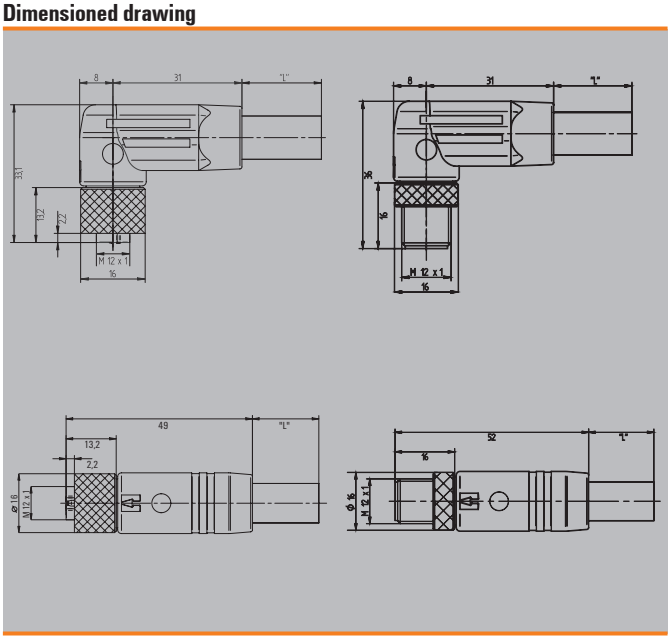
Ordering data

		5-pole
Male, straight - Female, straight		
PUR halogen-free 1.5 m	SAIL-M12GM12G-L-1.5PGR	**2455260150**
PUR halogen-free 3.0 m	SAIL-M12GM12G-L-3.0PGR	**2455260300**
PUR halogen-free 5.0 m	SAIL-M12GM12G-L-5.0PGR	**2455260500**
PUR halogen-free 10.0 m	SAIL-M12GM12G-L-10PGR	**2455261000**
Male, straight - Female, angled		
PUR halogen-free 1.5 m	SAIL-M12GM12W-L-1.5PGR	**2455280150**
PUR halogen-free 3.0 m	SAIL-M12GM12W-L-3.0PGR	**2455280300**
PUR halogen-free 5.0 m	SAIL-M12GM12W-L-5.0PGR	**2455280500**
PUR halogen-free 10.0 m	SAIL-M12GM12W-L-10PGR	**2455281000**
Male, angled - Female, angled		
PUR halogen-free 1.5 m	SAIL-M12WM12W-L-1.5PGR	**2455300150**
PUR halogen-free 3.0 m	SAIL-M12WM12W-L-3.0PGR	**2455300300**
PUR halogen-free 5.0 m	SAIL-M12WM12W-L-5.0PGR	**2455300500**
PUR halogen-free 10.0 m	SAIL-M12WM12W-L-10PGR	**2455301000**
Male, angled - female, straight		
PUR halogen-free 1.5 m	SAIL-M12WM12G-L-1.5PGR	**2455320150**
PUR halogen-free 3.0 m	SAIL-M12WM12G-L-3.0PGR	**2455320300**
PUR halogen-free 5.0 m	SAIL-M12WM12G-L-5.0PGR	**2455320500**
PUR halogen-free 10.0 m	SAIL-M12WM12G-L-10PGR	**2455321000**
Note		

Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	50 V
Approvals	cULus

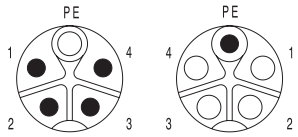
Dimensioned drawing



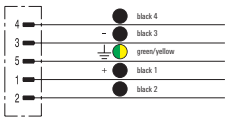
Sensor cables

One end without connector
M12
K-coded





Male Female



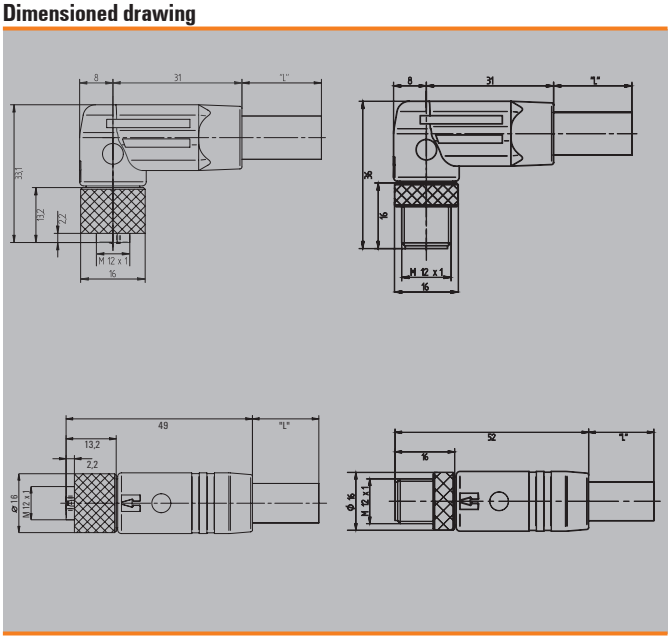
Ordering data

		5-pole
Male, straight		
PUR halogen-free	1.5 m	SAIL-M12G-K-1.5P **2455210150**
PUR halogen-free	3.0 m	SAIL-M12G-K-3.0P **2455210300**
PUR halogen-free	5.0 m	SAIL-M12G-K-5.0P **2455210500**
PUR halogen-free	10.0 m	SAIL-M12G-K-10P **2455211000**
Male, angled		
PUR halogen-free	1.5 m	SAIL-M12W-K-1.5P **2455230150**
PUR halogen-free	3.0 m	SAIL-M12W-K-3.0P **2455230300**
PUR halogen-free	5.0 m	SAIL-M12W-K-5.0P **2455230500**
PUR halogen-free	10.0 m	SAIL-M12W-K-10P **2455231000**
Female, straight		
PUR halogen-free	1.5 m	SAIL-M12BG-K-1.5P **2455150150**
PUR halogen-free	3.0 m	SAIL-M12BG-K-3.0P **2455150300**
PUR halogen-free	5.0 m	SAIL-M12BG-K-5.0P **2455150500**
PUR halogen-free	10.0 m	SAIL-M12BG-K-10P **2455151000**
Female, angled		
PUR halogen-free	1.5 m	SAIL-M12BW-K-1.5P **2455190150**
PUR halogen-free	3.0 m	SAIL-M12BW-K-3.0P **2455190300**
PUR halogen-free	5.0 m	SAIL-M12BW-K-5.0P **2455190500**
PUR halogen-free	10.0 m	SAIL-M12BW-K-10P **2455191000**
Note		

Technical data

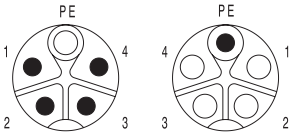
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	600 V
Approvals	cULus

Dimensioned drawing

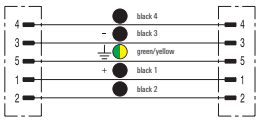


Connecting cables
M12
K-coded





Male Female



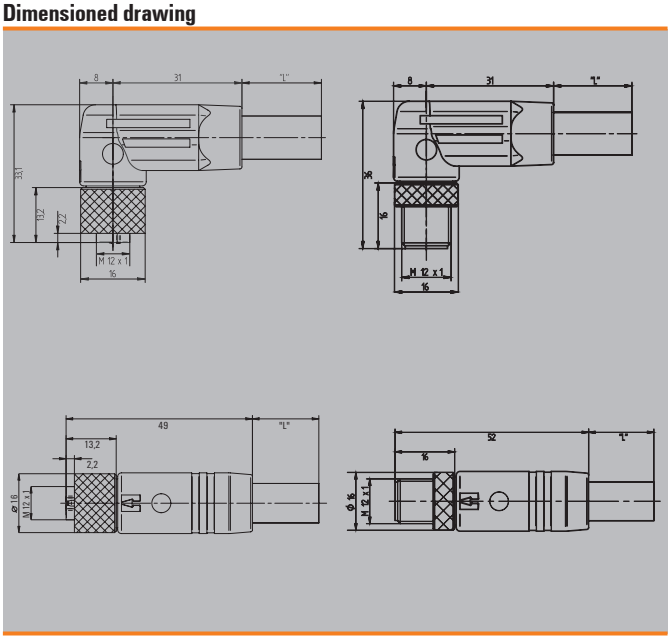
Ordering data

		5-pole
Male, straight - Female, straight		
PUR halogen-free	1.5 m	SAIL-M12GM12G-K-1.5P **2455250150**
PUR halogen-free	3.0 m	SAIL-M12GM12G-K-3.0P **2455250300**
PUR halogen-free	5.0 m	SAIL-M12GM12G-K-5.0P **2455250500**
PUR halogen-free	10.0 m	SAIL-M12GM12G-K-10P **2455251000**
Male, straight - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12GM12W-K-1.5P **2455270150**
PUR halogen-free	3.0 m	SAIL-M12GM12W-K-3.0P **2455270300**
PUR halogen-free	5.0 m	SAIL-M12GM12W-K-5.0P **2455270500**
PUR halogen-free	10.0 m	SAIL-M12GM12W-K-10P **2455271000**
Male, angled - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12WM12W-K-1.5P **2455290150**
PUR halogen-free	3.0 m	SAIL-M12WM12W-K-3.0P **2455290300**
PUR halogen-free	5.0 m	SAIL-M12WM12W-K-5.0P **2455290500**
PUR halogen-free	10.0 m	SAIL-M12WM12W-K-10P **2455291000**
Male, angled - female, straight		
PUR halogen-free	1.5 m	SAIL-M12WM12G-K-1.5P **2455310150**
PUR halogen-free	3.0 m	SAIL-M12WM12G-K-3.0P **2455310300**
PUR halogen-free	5.0 m	SAIL-M12WM12G-K-5.0P **2455310500**
PUR halogen-free	10.0 m	SAIL-M12WM12G-K-10P **2455311000**
Note		

Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	600 V
Approvals	cULus

Dimensioned drawing

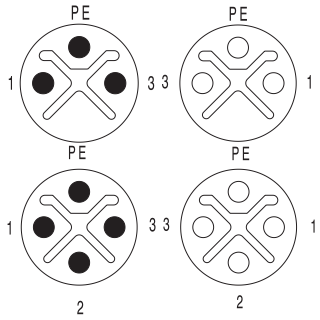


Sensor cables

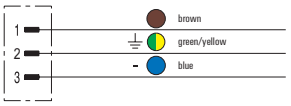
One end without connector

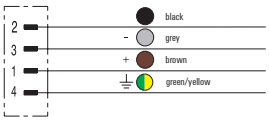
M12

S-coded









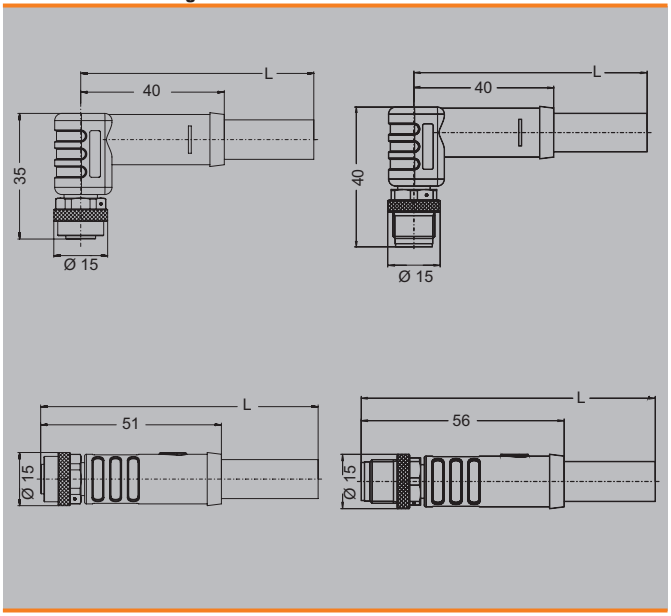
Ordering data

		3-pole		4-pole	
Male, straight					
PUR halogen-free	1.5 m	SAIL-M12G-S3-1.5PK16	**2050020150**	SAIL-M12G-S-1.5P	**2050230150**
PUR halogen-free	3.0 m	SAIL-M12G-S3-3.0P	**2050020300**	SAIL-M12G-S-3.0P	**2050230300**
PUR halogen-free	5.0 m	SAIL-M12G-S3-5.0P	**2050020500**	SAIL-M12G-S-5.0P	**2050230500**
PUR halogen-free	10.0 m	SAIL-M12G-S3-10P	**2050021000**	SAIL-M12G-S-10P	**2050231000**
Male, angled					
PUR halogen-free	1.5 m	SAIL-M12W-S3-1.5P	**2050050150**	SAIL-M12W-S-1.5P	**2050260150**
PUR halogen-free	3.0 m	SAIL-M12W-S3-3.0P	**2050050300**	SAIL-M12W-S-3.0P	**2050260300**
PUR halogen-free	5.0 m	SAIL-M12W-S3-5.0P	**2050050500**	SAIL-M12W-S-5.0P	**2050260500**
PUR halogen-free	10.0 m	SAIL-M12W-S3-10P	**2050051000**	SAIL-M12W-S-10P	**2050261000**
Female, straight					
PUR halogen-free	1.5 m	SAIL-M12BG-S3-1.5PK16	**2049950150**	SAIL-M12BG-S-1.5P	**2050160150**
PUR halogen-free	3.0 m	SAIL-M12BG-S3-3.0PK16	**2049950300**	SAIL-M12BG-S-3.0P	**2050160300**
PUR halogen-free	5.0 m	SAIL-M12BG-S3-5.0PK16	**2049950500**	SAIL-M12BG-S-5.0P	**2050160500**
PUR halogen-free	10.0 m	SAIL-M12BG-S3-10PK16	**2049951000**	SAIL-M12BG-S-10P	**2050161000**
Female, angled					
PUR halogen-free	1.5 m	SAIL-M12BW-S3-1.5P	**2050010150**	SAIL-M12BW-S-1.5P	**2050210150**
PUR halogen-free	3.0 m	SAIL-M12BW-S3-3.0P	**2050010300**	SAIL-M12BW-S-3.0P	**2050210300**
PUR halogen-free	5.0 m	SAIL-M12BW-S3-5.0P	**2050010500**	SAIL-M12BW-S-5.0P	**2050210500**
PUR halogen-free	10.0 m	SAIL-M12BW-S3-10P	**2050011000**	SAIL-M12BW-S-10P	**2050211000**
Note					

Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	600 V
Approvals	

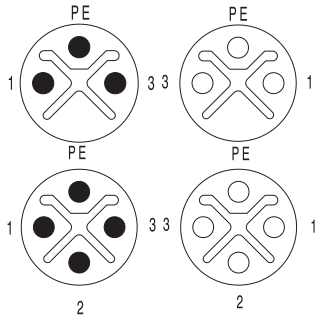
Dimensioned drawing



Connecting cables

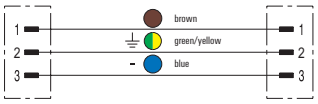
M12

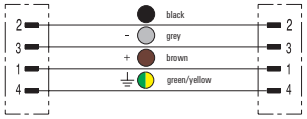
S-coded



Male Female







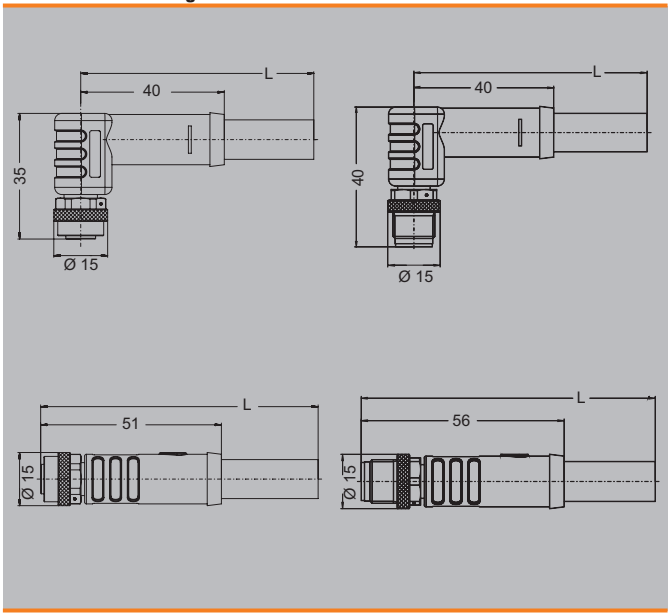
Ordering data

		3-pole		4-pole	
Male, straight - Female, straight					
PUR halogen-free	1.5 m	SAIL-M12GM12G-S3-1.5P	**2050060150**	SAIL-M12GM12G-S-1.5P	**2050270150**
PUR halogen-free	3.0 m	SAIL-M12GM12G-S3-3.0P	**2050060300**	SAIL-M12GM12G-S-3.0P	**2050270300**
PUR halogen-free	5.0 m	SAIL-M12GM12G-S3-5.0P	**2050060500**	SAIL-M12GM12G-S-5.0P	**2050270500**
PUR halogen-free	10.0 m	SAIL-M12GM12G-S3-10P	**2050061000**	SAIL-M12GM12G-S-10P	**2050271000**
Male, straight - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12GM12W-S3-1.5P	**2050100150**	SAIL-M12GM12W-S-1.5P	**2050460150**
PUR halogen-free	3.0 m	SAIL-M12GM12W-S3-3.0P	**2050100300**	SAIL-M12GM12W-S-3.0P	**2050460300**
PUR halogen-free	5.0 m	SAIL-M12GM12W-S3-5.0P	**2050100500**	SAIL-M12GM12W-S-5.0P	**2050460500**
PUR halogen-free	10.0 m	SAIL-M12GM12W-S3-10P	**2050101000**	SAIL-M12GM12W-S-10P	**2050461000**
Male, angled - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12WM12W-S3-1.5P	**2050150150**	SAIL-M12WM12W-S-1.5P	**2050470150**
PUR halogen-free	3.0 m	SAIL-M12WM12W-S3-3.0P	**2050150300**	SAIL-M12WM12W-S-3.0P	**2050470300**
PUR halogen-free	5.0 m	SAIL-M12WM12W-S3-5.0P	**2050150500**	SAIL-M12WM12W-S-5.0P	**2050470500**
PUR halogen-free	10.0 m	SAIL-M12WM12W-S3-10P	**2050151000**	SAIL-M12WM12W-S-10P	**2050471000**
Male, angled - female, straight					
PUR halogen-free	1.5 m	SAIL-M12WM12G-S3-1.5P	**2050080150**	SAIL-M12WM12G-S-1.5P	**2050350150**
PUR halogen-free	3.0 m	SAIL-M12WM12G-S3-3.0P	**2050080300**	SAIL-M12WM12G-S-3.0P	**2050350300**
PUR halogen-free	5.0 m	SAIL-M12WM12G-S3-5.0P	**2050080500**	SAIL-M12WM12G-S-5.0P	**2050350500**
PUR halogen-free	10.0 m	SAIL-M12WM12G-S3-10P	**2050081000**	SAIL-M12WM12G-S-10P	**2050351000**
Note					

Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	600 V
Approvals	

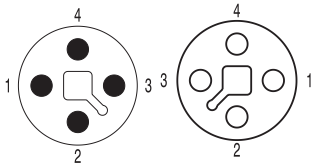
Dimensioned drawing

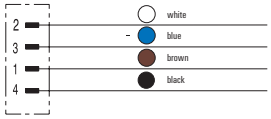


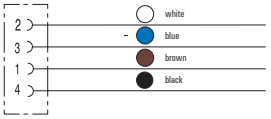
Sensor cables

One end without connector
M12
T-coded









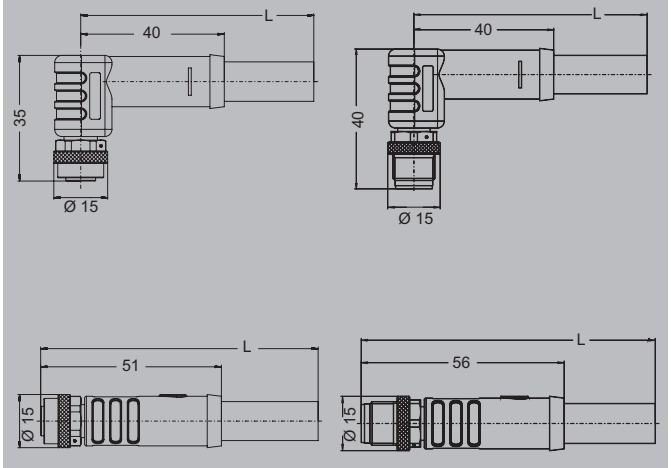
Ordering data

		1.5 mm²		2.5 mm²	
Male, straight					
PUR halogen-free	1.5 m	SAIL-M12G-T-1.5P	2050640150	SAIL-M12G-T-1.5H	2050700150
PUR halogen-free	3.0 m	SAIL-M12G-T-3.0P	2050640300	SAIL-M12G-T-3.0H	2050700300
PUR halogen-free	5.0 m	SAIL-M12G-T-5.0P	2050640500	SAIL-M12G-T-5.0H	2050700500
PUR halogen-free	10.0 m	SAIL-M12G-T-10P	2050641000	SAIL-M12G-T-10H	2050701000
Male, angled					
PUR halogen-free	1.5 m	SAIL-M12W-T-1.5P	2050650150	SAIL-M12W-T-1.5H	2050710150
PUR halogen-free	3.0 m	SAIL-M12W-T-3.0P	2050650300	SAIL-M12W-T-3.0H	2050710300
PUR halogen-free	5.0 m	SAIL-M12W-T-5.0P	2050650500	SAIL-M12W-T-5.0H	2050710500
PUR halogen-free	10.0 m	SAIL-M12W-T-10P	2050651000	SAIL-M12W-T-10H	2050711000
Female, straight					
PUR halogen-free	1.5 m	SAIL-M12BG-T-1.5P	2050490150	SAIL-M12BG-T-1.5H	2050680150
PUR halogen-free	3.0 m	SAIL-M12BG-T-3.0P	2050490300	SAIL-M12BG-T-3.0H	2050680300
PUR halogen-free	5.0 m	SAIL-M12BG-T-5.0P	2050490500	SAIL-M12BG-T-5.0H	2050680500
PUR halogen-free	10.0 m	SAIL-M12BG-T-10P	2050491000	SAIL-M12BG-T-10H	2050681000
Female, angled					
PUR halogen-free	1.5 m	SAIL-M12BW-T-1.5P	2050560150	SAIL-M12BW-T-1.5H	2050690150
PUR halogen-free	3.0 m	SAIL-M12BW-T-3.0P	2050560300	SAIL-M12BW-T-3.0H	2050690300
PUR halogen-free	5.0 m	SAIL-M12BW-T-5.0P	2050560500	SAIL-M12BW-T-5.0H	2050690500
PUR halogen-free	10.0 m	SAIL-M12BW-T-10P	2050561000	SAIL-M12BW-T-10H	2050691000
Note					

Technical data

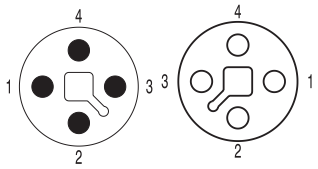
Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	63 V
Approvals	

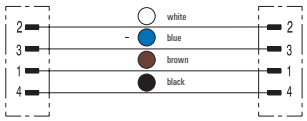
Dimensioned drawing

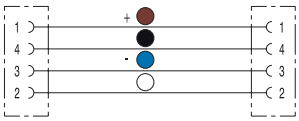


Connecting cables
M12
T-coded









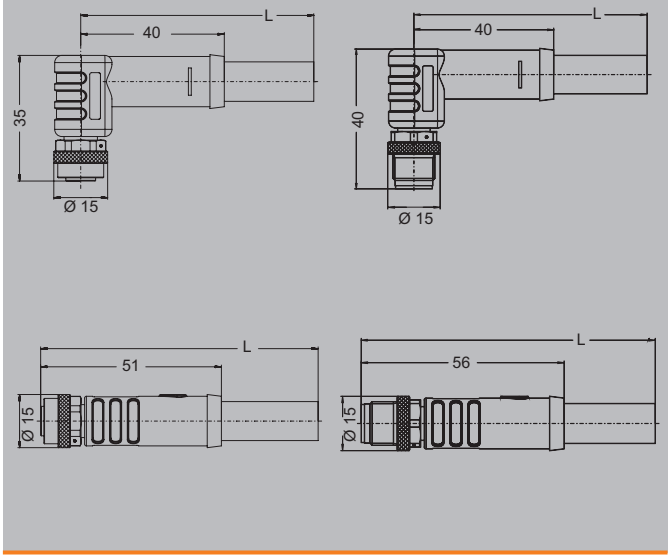
Ordering data

		1.5 mm²		2.5 mm²	
Male, straight - Female, straight					
PUR halogen-free	1.5 m	SAIL-M12GM12G-T-1.5P	2050760150	SAIL-M12GM12G-T-1.5H	2050870150
PUR halogen-free	3.0 m	SAIL-M12GM12G-T-3.0P	2050760300	SAIL-M12GM12G-T-3.0H	2050870300
PUR halogen-free	5.0 m	SAIL-M12GM12G-T-5.0P	2050760500	SAIL-M12GM12G-T-5.0H	2050870500
PUR halogen-free	10.0 m	SAIL-M12GM12G-T-10P	2050761000	SAIL-M12GM12G-T-10H	2050871000
Male, straight - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12GM12W-T-1.5P	2050830150	SAIL-M12GM12W-T-1.5H	2050910150
PUR halogen-free	3.0 m	SAIL-M12GM12W-T-3.0P	2050830300	SAIL-M12GM12W-T-3.0H	2050910300
PUR halogen-free	5.0 m	SAIL-M12GM12W-T-5.0P	2050830500	SAIL-M12GM12W-T-5.0H	2050910500
PUR halogen-free	10.0 m	SAIL-M12GM12W-T-10P	2050831000	SAIL-M12GM12W-T-10H	2050911000
Male, angled - Female, angled					
PUR halogen-free	1.5 m	SAIL-M12WM12W-T-1.5P	2050860150	SAIL-M12WM12W-T-1.5H	2050920150
PUR halogen-free	3.0 m	SAIL-M12WM12W-T-3.0P	2050860300	SAIL-M12WM12W-T-3.0H	2050920300
PUR halogen-free	5.0 m	SAIL-M12WM12W-T-5.0P	2050860500	SAIL-M12WM12W-T-5.0H	2050920500
PUR halogen-free	10.0 m	SAIL-M12WM12W-T-10P	2050861000	SAIL-M12WM12W-T-10H	2050921000
Male, angled - female, straight					
PUR halogen-free	1.5 m	SAIL-M12WM12G-T-1.5P	2050820150	SAIL-M12WM12G-T-1.5H	2050890150
PUR halogen-free	3.0 m	SAIL-M12WM12G-T-3.0P	2050820300	SAIL-M12WM12G-T-3.0H	2050890300
PUR halogen-free	5.0 m	SAIL-M12WM12G-T-5.0P	2050820500	SAIL-M12WM12G-T-5.0H	2050890500
PUR halogen-free	10.0 m	SAIL-M12WM12G-T-10P	2050821000	SAIL-M12WM12G-T-10H	2050891000
Note					

Technical data

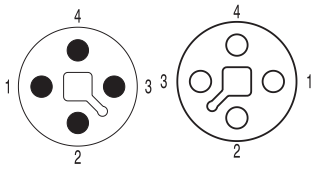
Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing



One end without connector
Connecting cables
M12
T-coded
shielded





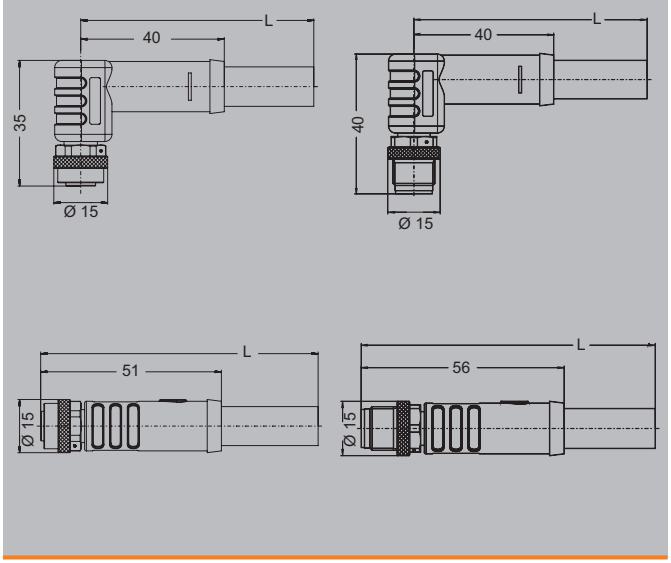
Ordering data

		4-pole
Male, straight - Female, straight		
PUR halogen-free	5.0 m	SAIL-M12G-TS-5.0U **2617670500**
Male, straight - Female, angled		
PUR halogen-free	5.0 m	SAIL-M12BG-TS-5.0U **2671670500**
Male, angled - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12GM12G-TS-1.5U **2490240150**
PUR halogen-free	3.0 m	SAIL-M12GM12G-TS-3.0U **2490240300**
PUR halogen-free	6.0 m	SAIL-M12GM12G-TS-6.0U **2490240600**
PUR halogen-free	10.0 m	SAIL-M12GM12G-TS-10U **2490241000**
Note		

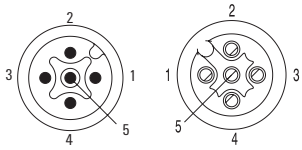
Technical data

Rated current	16 A
Protection degree	IP67
Core cross-section	1.5 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing



M12 screw connection
A-coded



Male Female

SAIS / SAIB



SAISW / SAIBW



Ordering data

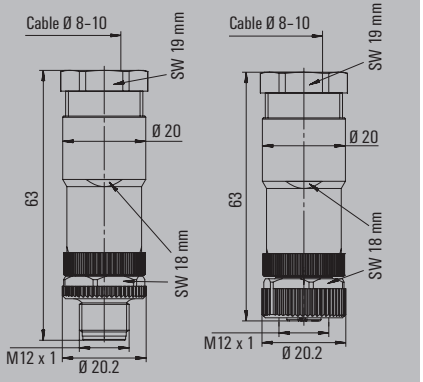
Male			
	4-pole. PG 11	SAIS-4/11-1.5	1353700000
	5-pole. PG 11	SAIS-5/11-1.5	1353740000
Female			
	4-pole. PG 11	SAIB-4/11-1.5	1353730000
	5-pole. PG 11	SAIB-5/11-1.5	1353750000
Note			

Type	Qty.	Order No.
SAISW-4/11-1.5	1	1467660000
SAISW-5/11-1.5	1	1467680000
SAIBW-4/11-1.5	1	1467670000
SAIBW-5/11-1.5	1	1467690000

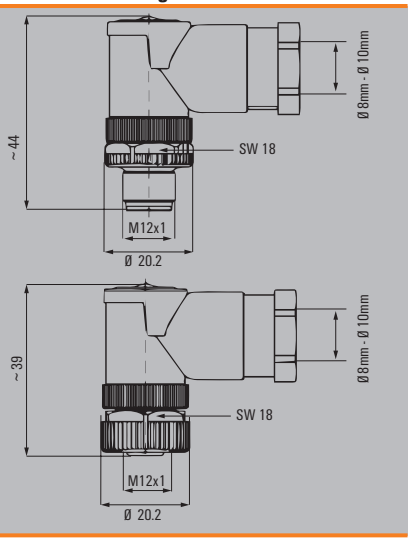
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	8...10 mm (PG11)	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm²	0.14...1.5 mm²
Rated current	Contacts 1-4 8A, contact 5 2A	Contacts 1-4 8A, contact 5 2A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Contact material	CuZn	CuZn
Plugging cycles	≥ 100	≥ 100
Pollution severity	3	3
Note		

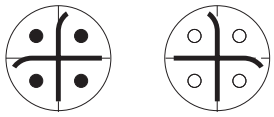
Dimensioned drawing



Dimensioned drawing



M12 screw connection
S-coded



Male Female

SAIS / SAIB



SAISW / SAIBW



Ordering data

Male			
	3-pole + PE		
Female			
	3-pole + PE		
Note			

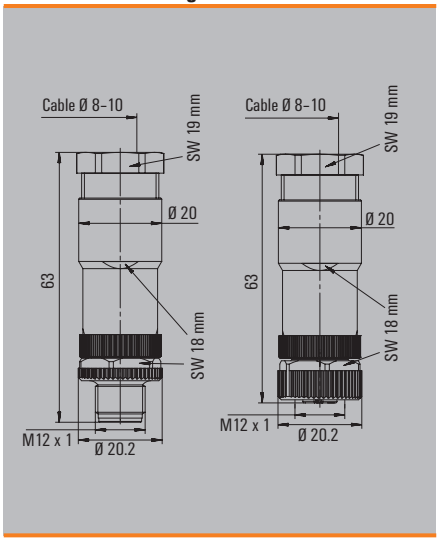
Type	Qty.	Order No.
SAIS-3+PE/11-S-COD	1	1391990000
SAIB-3+PE/11-S-COD	1	1392000000

Type	Qty.	Order No.
SAISW-3+PE/11-S-COD	1	1467860000
SAIBW-3+PE/11-S-COD	1	1467870000

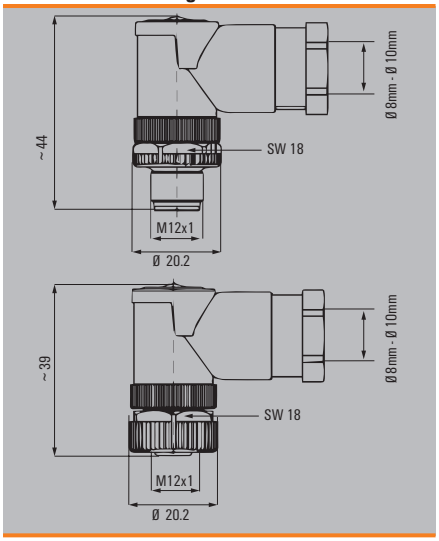
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	8...10 mm (PG11)	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm²	0.14...1.5 mm²
Rated current	12 A	12 A
Rated voltage	630 V	630 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Contact material	CuZn	CuZn
Plugging cycles	≥ 100	≥ 100
Pollution severity	3	3
Note		

Dimensioned drawing

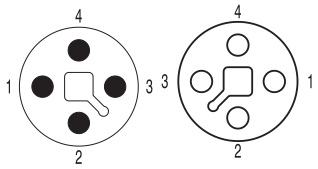


Dimensioned drawing



Customisable plug-in connectors

M12 screw connection
T-coded



SAIS / SAIB



SAISW / SAIBW



Ordering data

Male			
	4-pole. PG 11		
Female			
	4-pole. PG 11		
Note			

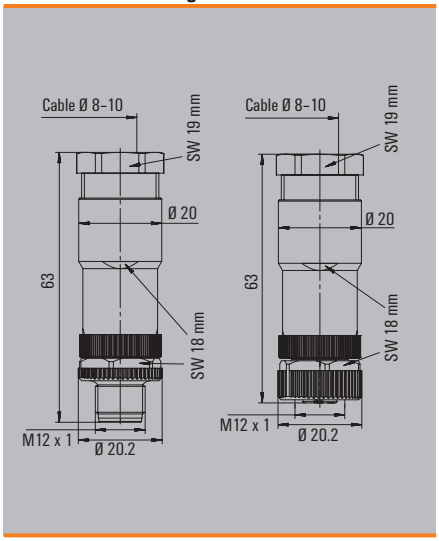
Type	Qty.	Order No.
SAIS-4/11-T-COD	1	**1391970000**
SAIB-4/11-T-COD	1	**1391980000**

Type	Qty.	Order No.
SAISW-4/11-T-COD	1	**1467880000**
SAIBW-4/11-T-COD	1	**1467890000**

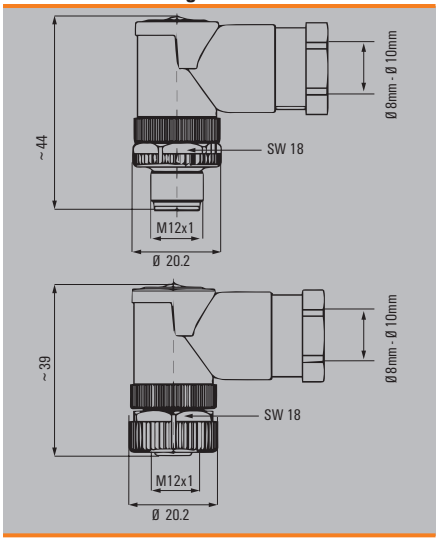
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	PA	PA
Connection thread	M12	M12
Cable diameter	8...10 mm (PG11)	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm²	0.14...1.5 mm²
Rated current	12 A	12 A
Rated voltage	60 V	60 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Contact material	CuZn	CuZn
Plugging cycles	≥ 100	≥ 100
Pollution severity	3	3
Note		

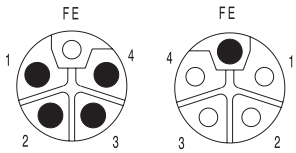
Dimensioned drawing



Dimensioned drawing



Insulation displacement connection M12 with shield connection L-Coded



SAIS

Male



SAIB

Female



Ordering data

	Type	Qty.	Order No.
5-pole	SAIS-M-5S-IDC-M12-L-COD	1	2530750000
Note			

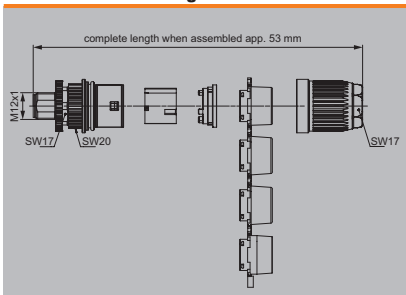
	Type	Qty.	Order No.
	SAIB-M-5S-IDC-M12-L-COD	1	2530760000

Technical data

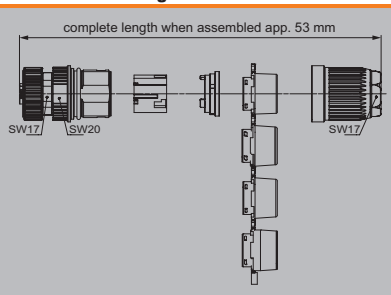
Type of connection	Insulation displacement connection (IDC)
Housing main material	Zinc diecast
Connection thread	M12 plug
Cable diameter	5.8...13.5 mm
Wire cross-section, min. / max.	0.75...1.5 mm²
Rated current	12 A
Rated voltage	63 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67, when screwed in
Contact surface	Au (Gold)
Contact material	Cu
Plugging cycles	500
Pollution severity	3
Note	

Insulation displacement connection (IDC)	
Zinc diecast	
M12 socket	
5.8...13.5 mm	
0.75...1.5 mm²	
12 A	
63 V	
-40 ... +85 ° C	
IP67, when screwed in	
Au (Gold)	
Cu	
500	
3	

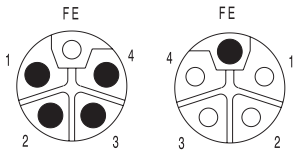
Dimensioned drawing



Dimensioned drawing



Crimp connection M12 with shield connection L-Coded



SAIS

Male



SAIB

Female



Ordering data

	5-pole		
Note			

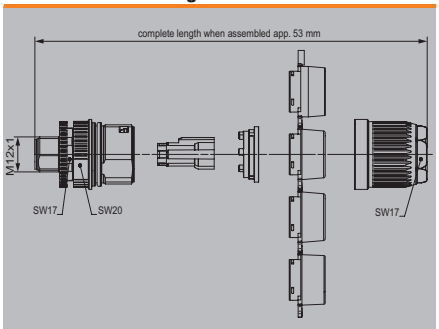
Type	Qty.	Order No.
SAISC-M-5S-M12-L-COD	1	**2531020000**
Contacts need to be order separately		

Type	Qty.	Order No.
SAIBC-M-5S-M12-L-COD	1	**2525620000**
Contacts need to be order separately		

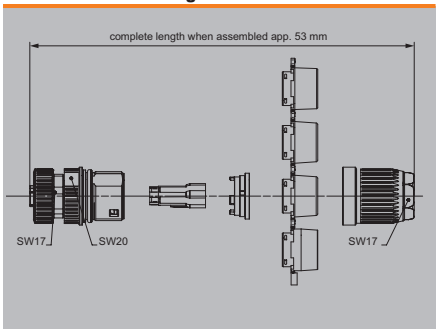
Technical data

Type of connection	Crimp connection	Crimp connection
Housing main material	Zinc diecast	Zinc diecast
Connection thread	M12 plug	M12 socket
Cable diameter	5.8...13.5 mm	5.8...13.5 mm
Wire cross-section, min. / max.	0.5...2.5 mm²	0.5...2.5 mm²
Rated current	16 A	16 A
Rated voltage	63 V	63 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Contact material	Cu	Cu
Plugging cycles	500	500
Pollution severity	3	3
Note		

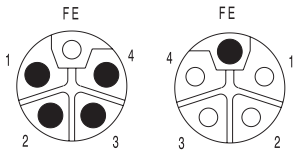
Dimensioned drawing



Dimensioned drawing



Crimp contacts M12 for L-Coded connectors



Male Female

SAI-KSC/KBC



SAI-KSC-FE



Ordering data

Male	Type	Qty.	Order No.
0.5 mm²	SAI-M12L-KSC-0.5	50	**2530920000**
0.75 mm²	SAI-M12L-KSC-0.75	50	**2530930000**
1.5 mm²	SAI-M12L-KSC-1.5	50	**2530940000**
2.5 mm²	SAI-M12L-KSC-2.5	50	**2530950000**
Female			
0.5 mm²	SAI-M12L-KBC-0.5	50	**2530990000**
0.75 mm²	SAI-M12L-KBC-0.75	50	**2531000000**
1.5 mm²	SAI-M12L-KBC-1.5	50	**2531010000**
2.5 mm²	SAI-M12L-KBC-2.5	50	**2525650000**
Note	Crimping tool 9018490000		

Type	Qty.	Order No.
SAI-M12L-KSC-0.5FE	50	**2530960000**
SAI-M12L-KSC-0.75FE	50	**2530970000**
SAI-M12L-KSC-1.5FE	50	**2530980000**
SAI-M12L-KSC-2.5FE	50	**2525660000**
Crimping tool 9018490000		

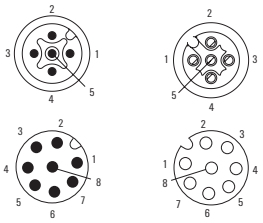
Technical data

Type of connection	Crimp contact, Socket connector	Crimp contact, Pin
Housing main material		
Connection thread		
Cable diameter		
Wire cross-section, min. / max.		
Rated current		
Rated voltage	63 V	63 V
Temperature range of housing		
Protection degree		
Contact surface	Gold-plated	Gold-plated
Contact material	Cu	Cu
Plugging cycles	500	500
Pollution severity	3	3
Note		

Customisable panel feed-through

M12 screw connection
A-coded





Male Female

Ordering data

	4-pole	5-pole	8-pole
Male			
4-pole	SAIS-WDF-4-M20 **1383020000**		
5-pole		SAIS-WDF-5-M20 **1383030000**	
8-pole			SAIS-WDF-8-M20 **1383040000**
Female			
4-pole	SAIB-WDF-4-M20 **1383050000**		
5-pole		SAIB-WDF-5-M20 **1383070000**	
8-pole			SAIB-WDF-8-M20 **1383080000**
Note			

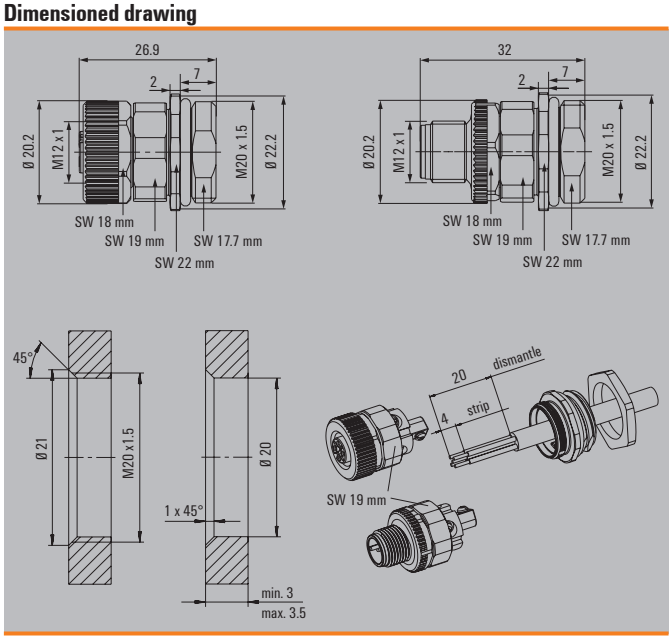
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

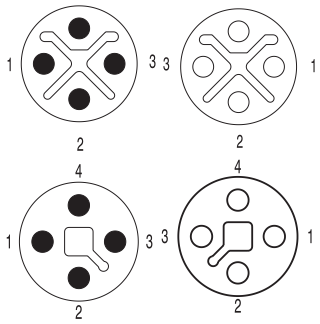
Technical data

Type of connection	Screw connection
Housing main material	Zinc diecast
Connection thread	M12
Wire cross-section, min. / max.	0.14...1.5 mm²
Rated current	8 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable glands	M 20

Dimensioned drawing



M12 screw connection
S-coded
T-coded



SAIS / SAIB

S-coded



SAIS / SAIB

T-coded



Ordering data

Male			
	4-pole		
Female			
	4-pole		
Note			

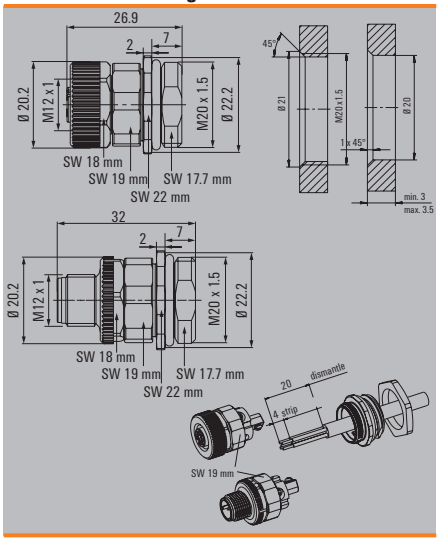
Type	Qty.	Order No.
SAIS-WDF-3+PE-M20-S-COD	1	1460290000
SAIB-WDF-3+PE-M20-S-COD	1	1460300000

Type	Qty.	Order No.
SAIS-WDF-4-M20-T-COD	1	1392710000
SAIB-WDF-4-M20-T-COD	1	1392720000

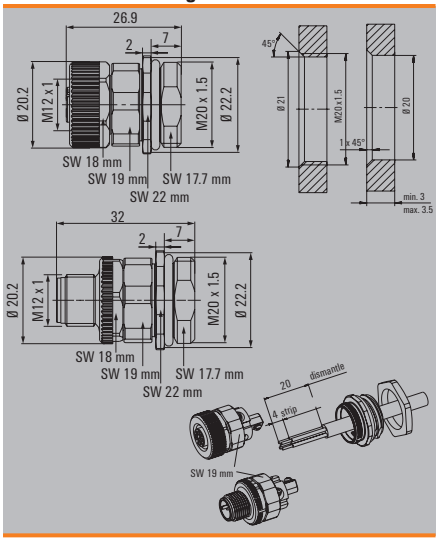
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	Zinc diecast	Zinc diecast
Connection thread	M12	M12
Cable diameter		
Wire cross-section, min. / max.	0.14...1.5 mm²	0.14...1.5 mm²
Rated current	12 A	12 A
Rated voltage	630 V	60 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Contact material	CuZn	CuZn
Plugging cycles	≥ 100	≥ 100
Pollution severity	3	3
Cable glands	M 20	M 20
Note		

Dimensioned drawing

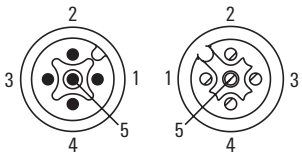


Dimensioned drawing



Built-in plug

A-coded



Male Female

M12 (PG 9)

SAIE-M12



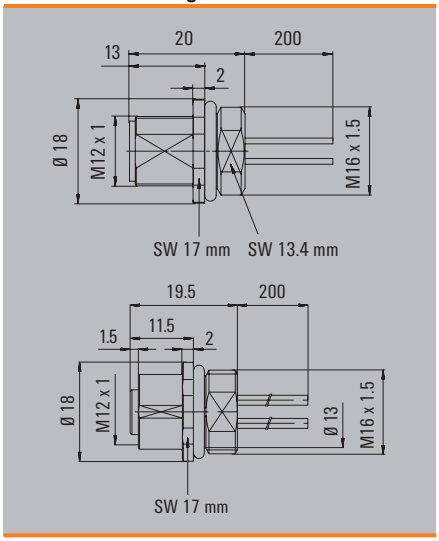
Ordering data

Male		Type	Qty.	Order No.
	4-pole	SAIE-M12S-4-0.2U P9 .75	1	**1353770000**
	5-pole	SAIE-M12S-5-0.2U P9 .75	1	**1353790000**
Female				
	4-pole	SAIE-M12B-4-0.2U P9 .75	1	**1353780000**
	5-pole	SAIE-M12B-5-0.2U P9 .75	1	**1353800000**
Note				

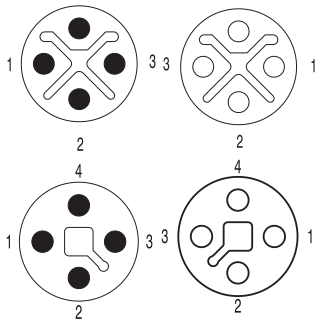
Technical data

Cable glands	PG 9
Housing main material	Zinc diecast
Connection thread	M12
Core cross-section	18 AWG
Rated current	Contacts 1-4 8A, contact 5 2A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (3- and 4-pole) / 60 V (5-pole)
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

Dimensioned drawing



S-coded
T-coded



M12 (M16)

SAIE-M12



M12 (M16)

SAIE-M12



Ordering data

Male			
	4-pole, 0.2 m	1	**1467930000**
	4-pole, 0.5 m	1	**1460320000**
Female			
	4-pole, 0.2 m	1	**1467940000**
	4-pole, 0.5 m	1	**1460310000**
Note			

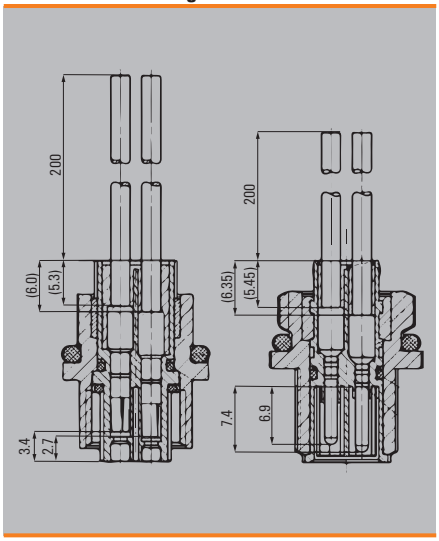
Type	Qty.	Order No.
SAIE-M12S-3+PE-S-0.2U-M16	1	**1467930000**
SAIE-M12S-3+PE-S-0.5U-M16	1	**1460320000**
SAIE-M12B-3+PE-S-0.2U-M16	1	**1467940000**
SAIE-M12B-3+PE-S-0.5U-M16	1	**1460310000**

Type	Qty.	Order No.
SAIE-M12S-4-T-0.2U-M16	1	**1467950000**
SAIE-M12S-4-T-0.5U-M16	1	**1460340000**
SAIE-M12B-4-T-0.2U-M16	1	**1467960000**
SAIE-M12B-4-T-0.5U-M16	1	**1460330000**

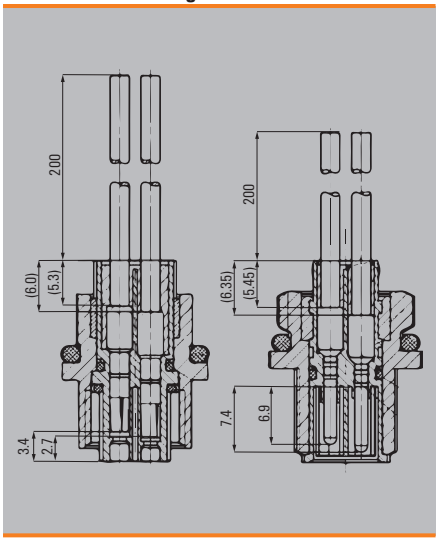
Technical data

Cable glands	M 16	M 16
Housing main material	Brass, nickel-plated	Zinc diecast
Connection thread	M12	M12
Core cross-section	16 AWG	16 AWG
Rated current	12 A	12 A
Rated voltage	630 V	63 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing

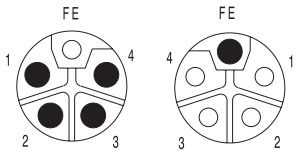


Dimensioned drawing



Built-in plug

L-Coded



Male Female

M12(M16)

Front mounting



M12(M16)

Back panel mounting



Ordering data

Male			
	1.5 mm², 0.3 m	SAIE-M12SL-0.3VFM16-1.5	2530770000
	2.5 mm², 0.3 m	SAIE-M12SL-0.3VFM16-2.5	2530790000
Female			
	1.5 mm², 0.3 m	SAIE-M12BL-0.3VFM16-1.5	2530780000
	2.5 mm², 0.3 m	SAIE-M12BL-0.3VFM16-2.5	2530800000
Note			

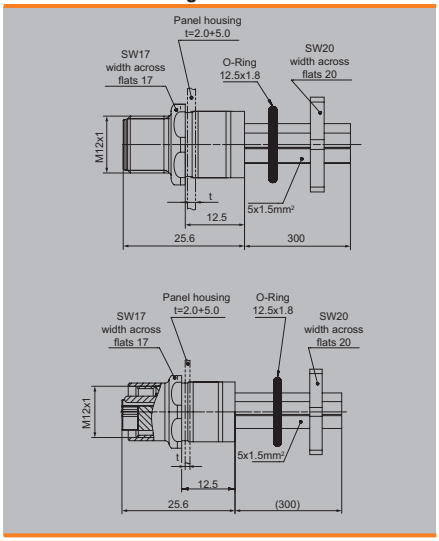
Type	Qty.	Order No.
SAIE-M12SL-0.3VFM16-1.5	1	2530770000
SAIE-M12SL-0.3VFM16-2.5	1	2530790000
SAIE-M12BL-0.3VFM16-1.5	1	2530780000
SAIE-M12BL-0.3VFM16-2.5	1	2530800000

Type	Qty.	Order No.
SAIE-M12SL-0.3VHM16-1.5	1	2625950000
SAIE-M12SL-0.3VHM16-2.5	1	2625960000
SAIE-M12BL-0.3VHM16-1.5	1	2625940000
SAIE-M12BL-0.3VHM16-2.5	1	2625970000

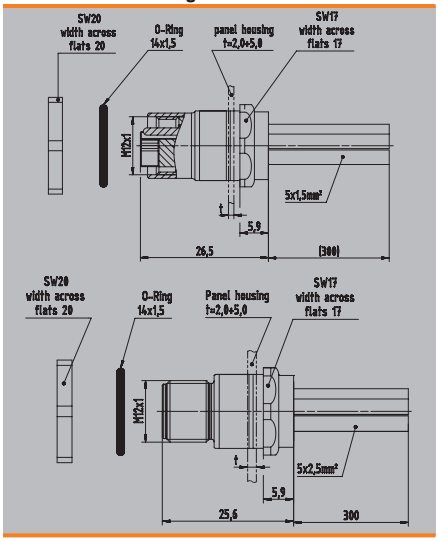
Technical data

Cable glands	M 16	M 16
Housing main material	Zinc diecast	Zinc diecast
Connection thread	M12	M12
Core cross-section	1.5 mm²	1.5 mm²
Rated current	16 A	16 A
Rated voltage	63 V	63 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold-plated	Gold-plated
Note		

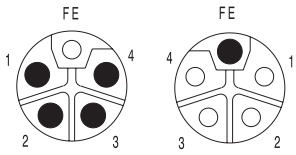
Dimensioned drawing



Dimensioned drawing



Dip solder
with shield connection
L-Coded



M12(M16)

Front mounting



M12(M16)

Back panel mounting



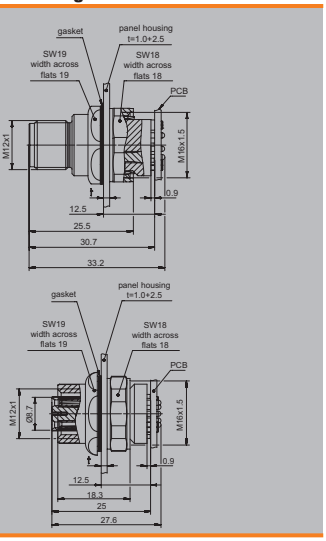
Ordering data

Male					
	5-pole	Type	Qty.	Order No.	Type	Qty.	Order No.
Female							
	5-pole	SAIE-M12SL-5S-F12TL-M16	1	**2530880000**	SAIE-M12SL-5S-H11TL-M16	1	**2530900000**
		SAIE-M12BL-5S-F12TL-M16	1	**2530890000**	SAIE-M12BL-5S-H11TL-M16	1	**2530910000**
Note							

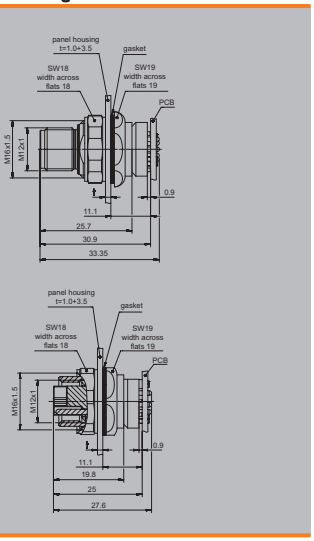
Technical data

Cable glands	M 16	M 16
Housing main material	PA	PA
Connection thread	M12	M12
Core cross-section		
Rated current	16 A	16 A
Rated voltage	63 V	63 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when screwed in	IP67, when screwed in
Contact surface	Gold over nickel	Gold over nickel
Note		

Dimensioned drawing

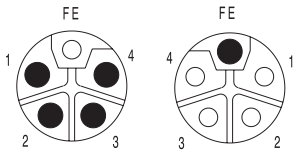


Dimensioned drawing



Device connector

Dome
Flange housing
L-Coded



M12(M16)

Dome



M12(M16)

Flange housing



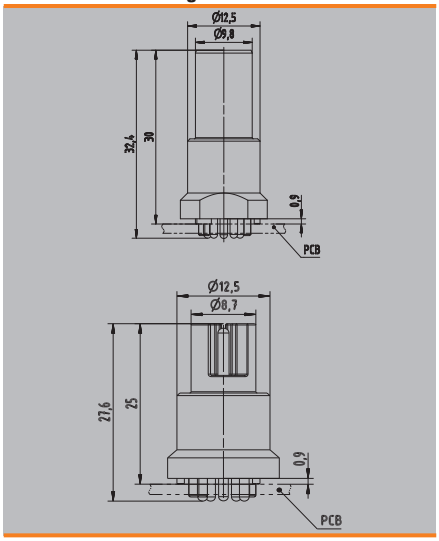
Ordering data

Male	Type	Qty.	Order No.	Type	Qty.	Order No.
5-pole	SAID-M12SL-5-SMT	60	2530810000			
Front mounting				SAIFG-M12S-L-F12-M16	60	2530830000
Back panel mounting				SAIFG-M12S-L-H11-M16	60	2530850000
Female						
5-pole	SAID-M12BL-5-SMT	60	2530820000			
Front mounting				SAIFG-M12B-L-F12-M16	60	2530840000
Back panel mounting				SAIFG-M12B-L-H11-M16	60	2530870000
Note						

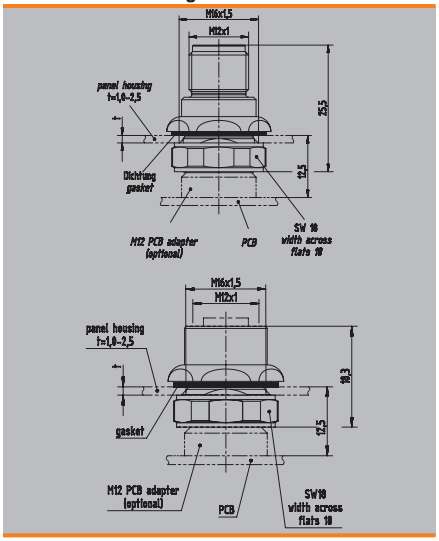
Technical data

Cable glands	M 16	M 16
Housing main material	PA	PA
Connection thread	M12	M12
Core cross-section		
Rated current	16 A	16 A
Rated voltage	63 V	63 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67, when fully mounted	IP67, when screwed in
Contact surface	Gold over nickel	Gold over nickel
Note		

Dimensioned drawing



Dimensioned drawing

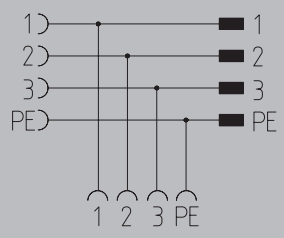


T, h and H distributors

M12

T-Distributor, S-Coded





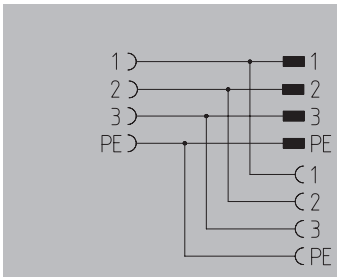
Ordering data

Type	Qty.	Order No.
SAI-T-M12-S-COD	1	2616430000

M12

h-Distributor, S-Coded





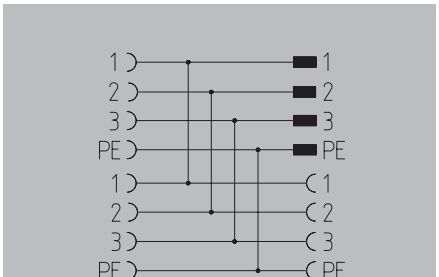
Ordering data

Type	Qty.	Order No.
SAI-H3-M12-S-COD	1	2616410000

M12

H-Distributor, S-Coded





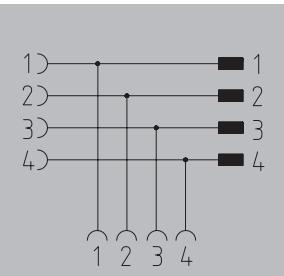
Ordering data

Type	Qty.	Order No.
SAI-H-M12-S-COD	1	2616350000

M12

T-Distributor, T-Coded





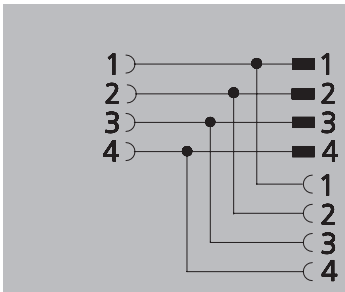
Ordering data

Type	Qty.	Order No.
SAI-T-M12-T-COD	1	2616440000

M12

h-Distributor, T-Coded





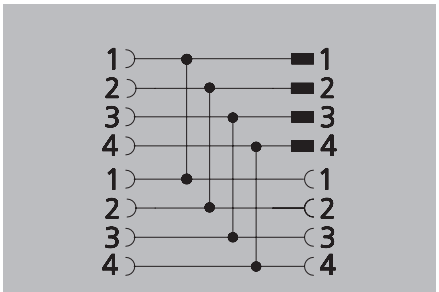
Ordering data

Type	Qty.	Order No.
SAI-H3-M12-T-COD	1	2616420000

M12

H-Distributor, T-Coded





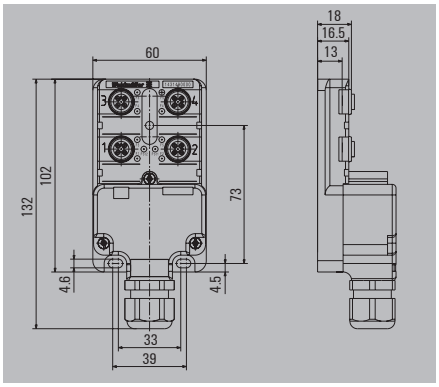
Ordering data

Type	Qty.	Order No.
SAI-H-M12-T-COD	1	2439350000

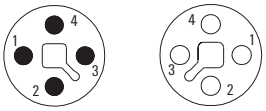
Hood version
T-coded

SAI-M-4-SVV-M12





T-coding



Pin Socket connector

Ordering data

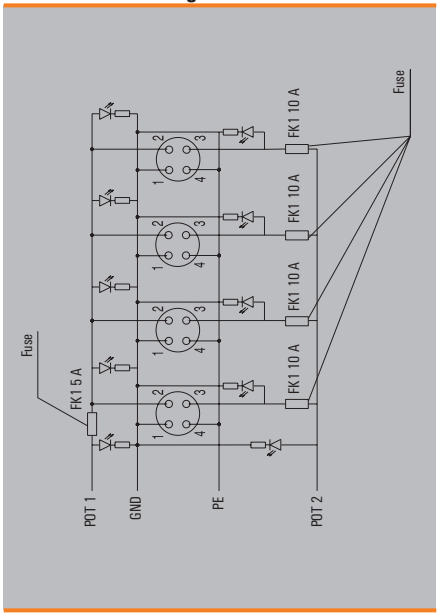
SAI-M-4-SVV-M12		4-pole
Type	**Qty.**	**Order No.**
SAI-4-M-SVV-M12	1	**1431490000**

	4 plug-in stations
Note	

Technical data

Operating voltage	10...30 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm²
Suitable for dragline cable (fixed cable connection)	No

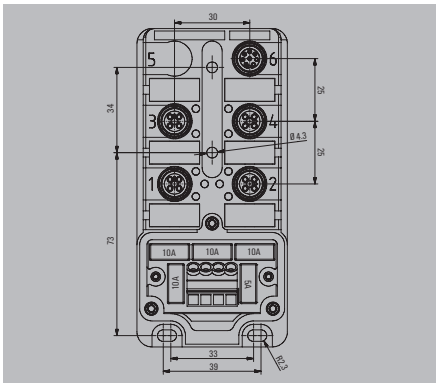
Dimensioned drawing



Hood version with checkback signal

SAI-4-SVV-GM-RM





Ordering data

	4 plug-in stations
Note	

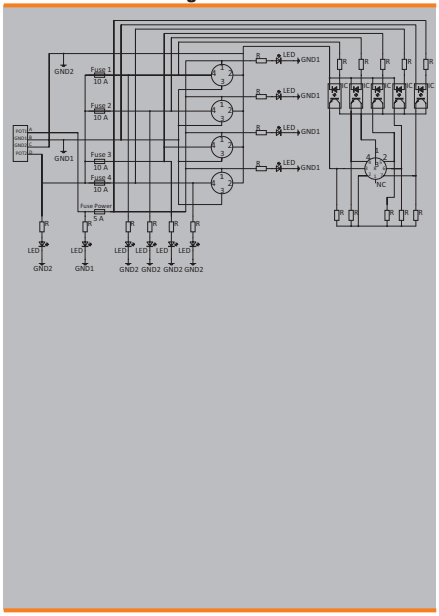
SAI-4-SVV-GM-RM — 4-pole

Type	Qty.	Order No.
SAI-4-SVV-GM-RM-M12	1	2495280000

Technical data

DC operating voltage	48 V
Current per signal	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm²
Conductor O.D.	

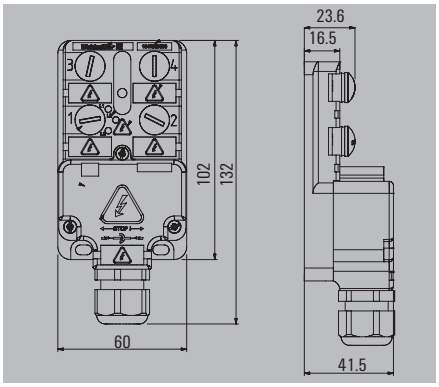
Dimensioned drawing

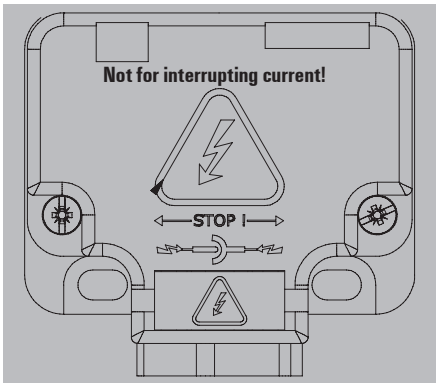


Hood version
S-coded

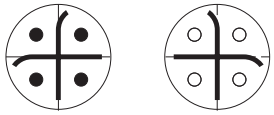
SAI-4-M-MVV-M12 S-COD







S-coding



Pin Female

Ordering data

Complete modules	
	4 plug-in stations
Note	

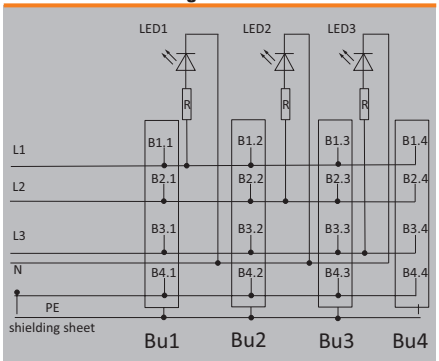
SAI-4-M-MVV-M12 S-COD — 4-pole

Type	Qty.	Order No.
SAI-4-M-MVV-M12 S-COD	1	1542580000

Technical data

Operating voltage AC	...400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm²
Conductor O.D.	

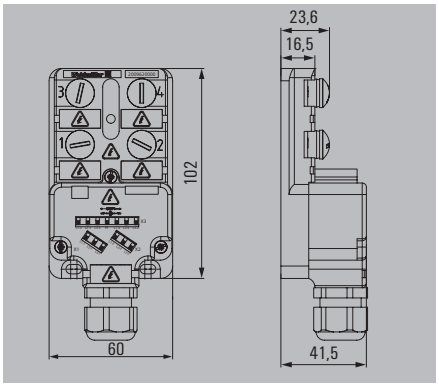
Dimensioned drawing

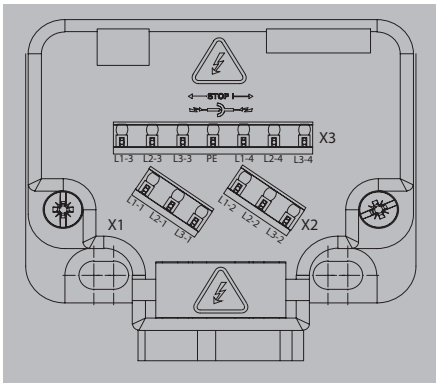


Hood version
S-coded

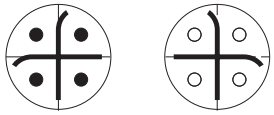
SAI-4-M-MVV-M12 1:1







S-coding



Pin Female

Ordering data

SAI-4-M-MVV-M12 1:1	4-pole

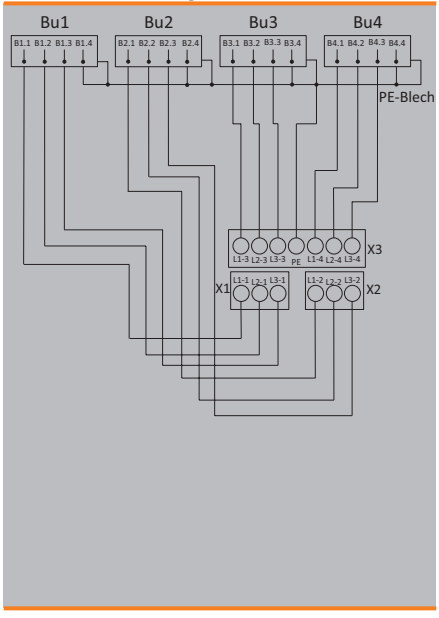
Type	Qty.	Order No.
SAI-4-M-MVV-M12 1:1	1	2009620000

Complete modules	
	4 plug-in stations
Note	

Technical data

Operating voltage AC	400 V
Current per signal	12 A
Max. current-carrying capacity per slot	36 A
Total current	144 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...1.5 mm²
Conductor O.D.	

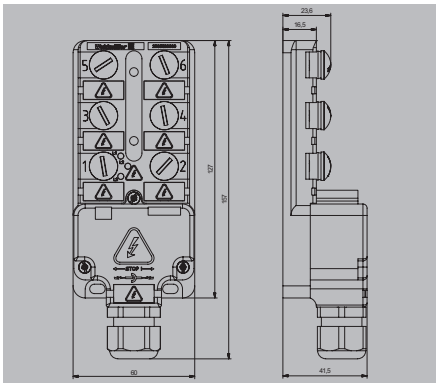
Dimensioned drawing



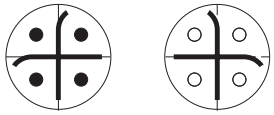
Hood version
S-coded

SAI-6-M-MVV-M12 S-COD





S-coding



Pin Female

Ordering data

Complete modules	
	6 plug-in stations
Note	

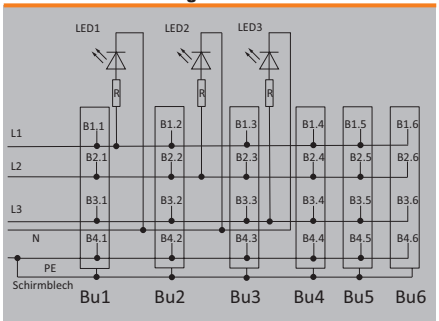
SAI-6-M-MVV-M12 S-COD — 4-pole

Type	Qty.	Order No.
SAI-6-M-MVV-M12 S-COD	1	2085620000

Technical data

Operating voltage AC	400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm²
Conductor O.D.	

Dimensioned drawing



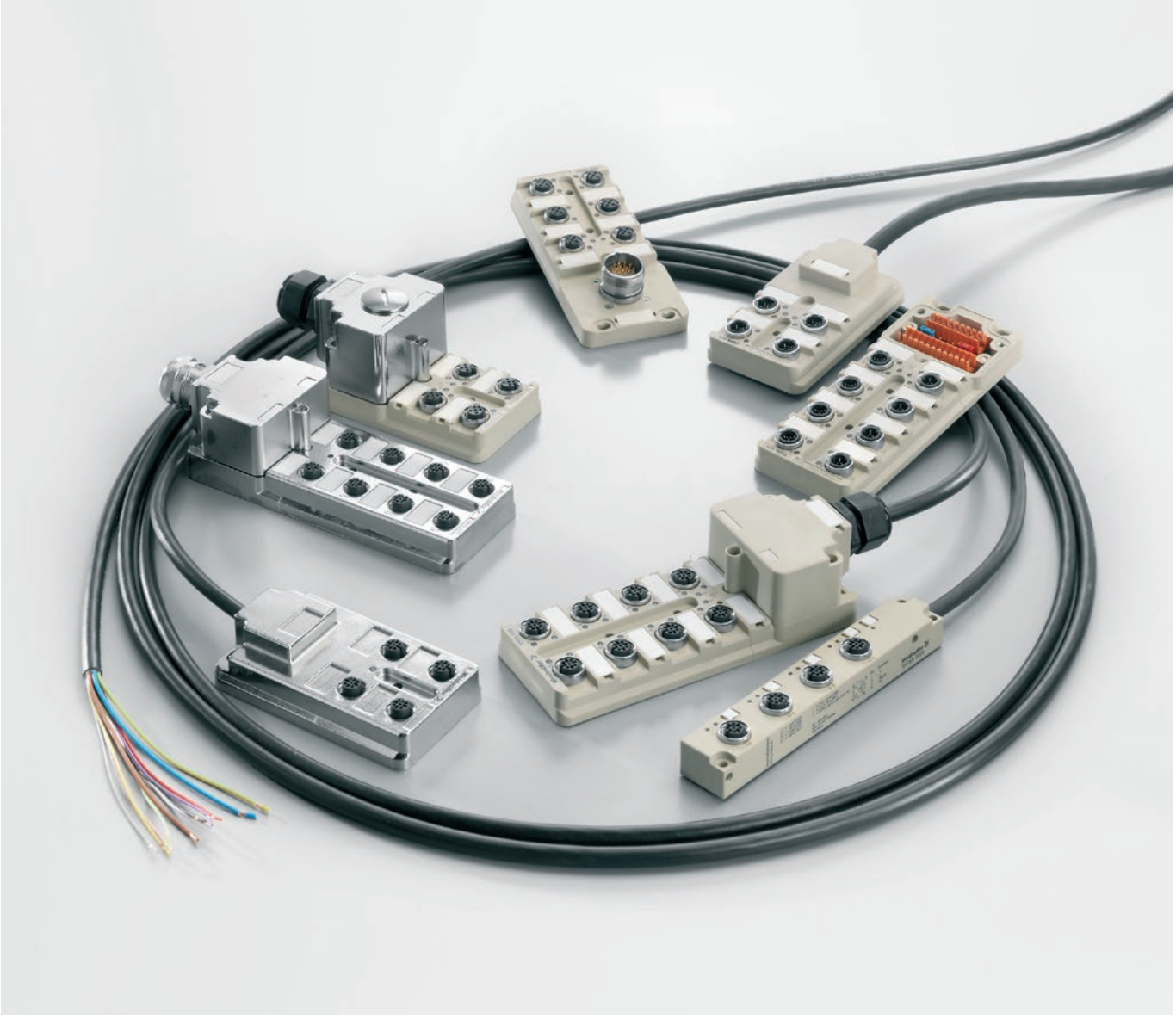
Passive distributors

Passive distributors	Introduction	E.2
	M12 distributors	E.4
	ECO modules	E.14
	M12 with M23 outlet	E.16
	M12 IDC	E.18
	M12 VA stainless steel	E.22
	M12 metal distributors	E.24
	M12 distributors 1:1 Passive	E.30
	M12 8 poles	E.31
	M12 distributor for NPN and PNP sensors	E.32
	M12 wall bushing	E.33
	Solutions to customer specification	E.36
	M12 distributors accessories	E.37
	M8 distributors	E.38
	M12 Ex i distributors	E.48

SAI Passive

SAI Passive products are built with premium materials using the highest quality production methods. The fully encapsulated distributors are designed to meet harsh industrial requirements. Naturally they have also been designed so that they are easy to handle. The self assembled connectors in the hooded version, for example, are joined into a single part so that the entire block is available for the connection. This is a unique solution for distributors that has no equal anywhere. Nothing can break off, get mixed up or wired up incorrectly.

The distributors are equipped by default with threaded metal rings. This ensures a very reliable screw-on connection. The nut is completely threaded without any interruptions. This eliminates the possibility of it getting stuck or jammed. The IDC versions are especially noteworthy. Sensor cables of the proper lengths can be connected directly here.





Compact

The connection block is a single piece



Small

Extremely small M12 distributor



Fast

Insulation displacement connection can be used to directly connect the sensor cables



Robust

Threaded metal ring without cut outs for reliable, safe handling



M12 distributor standard



M12 distributor with DIP switch coding

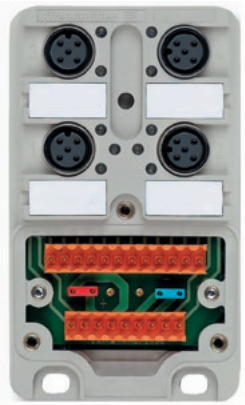


M12 distributor with stainless steel housing



M12 distributor for Zone 1

SAI distributor with plug in connection hood: SAI-M





- Integrated plug in connector in connection hood
- M12 robust metal thread for sensor/actuator connection, now also available with plastic thread as an alternative
- Quick replacement of bus cables
- Bus cable can be supplied pre-assembled
- Two connection systems for bus cable: screw or tension clamp
- Very flat connection hood: no higher than smallest 90° M12 round plug
- Distributor and connection hood can be supplied separately
- Connection hood compatible with 4 and 8 channel SAI distributors (upgrades only entail changing the base module)
- IP 68 Ingress protection class (IDC IP 67)
- Housing made from Pocan® (PBT):
  – high dimensional stability
  – good electrical and mechanical properties
  – flame retardant without dioxin or furan formers
  – resistant to coolants and lubricants
- UL/CSA approvals for M12 SAI distributor
- SAI distributor available in pollution severity class 3
- Cable exit on top
- Weidmüller SAI distributors have the largest storage capacity in the connection hood
- Female connectors integrated into the metal plate for fast and reliable connections
- Wide range of M8 and M12 cables and plug-in connectors
- Various cable lengths available
- Metal hoods and housings also available
- Plug-in connection module for bus cables increases flexibility on site
- Integral, plug in electrical isolation for two separate electric circuits (e.g. for emergency stop)
- Simple and vibration resistant connections on site
- Captive metric screws (grade 8.8 steel) have a +/- head
- M12 and IDC connections
- 1:1 arrangement available

Overview of M12 Distributors



Fixed cable version

- Pre-assembled bus cable minimises installation time and reduces wiring errors
- Cable carrier compatible versions are available with polyurethane (PUR) sheathing



M12 Push-Pull quick-fit connection system

M12 Push-Pull is the new connection system for sensors and actuators. It is downward compatible to the existing M12 system, which means that both old M12 and new M12 Push-Pull lines can be used together on these SAIs. M12 Push-Pull decreases installation time and increases installation safety by means of colour coding and provides an audible click on locking for added reassurance.



SAI ECO – the cost-effective alternative

Weidmüller SAI distributors with hood have long since been standard fittings in machines and installations.

Why plastic threaded rings?

There are some applications, however, that call for a further version. In some applications it is necessary to avoid all metal parts, unless these are made from stainless steel. In such cases stainless steel is then used for screws and nuts only, but the M12 threaded rings can be made from plastic. Such modules can now be supplied on request.

The use of plastic rings results in a cheaper alternative. Although the service life and resistance are reduced when compared to metal, this is acceptable for some applications.

Overview of SAI

M12 Plastic

	Hood	M23	5 m	10 m	15 m	20 m
4-way, 4-pole	1705920000	9456000000	9456190000	9456200000	9456210000	9456230000
4-way, 5-pole	1701230000	9456000001	9456330000	9456340000	9456350000	9456370000
6-way, 4-pole	1705930000	9456010000	9456470000	9456480000	9456490000	9456510000
6-way, 5-pole	1701240000	9456010001	9456610000	9456620000	9456630000	9456650000
8-way, 4-pole	1705940000	9456020000	9456750000	9456760000	9456770000	9456790000
8-way, 5-pole	1701250000	1795470000	9456890000	9456900000	9456910000	9456930000

M12 Metal

	Hood without shield connection	Hood with shield connection	5 m	10 m		
4-way, 4-pole		1783540000	9456190002	9456200002		
4-way, 5-pole	1783500000	1783520000				
8-way, 4-pole		1783530000	9456750002	9456760002		
8-way, 5-pole	1783490000	1783510000				

M12 Line

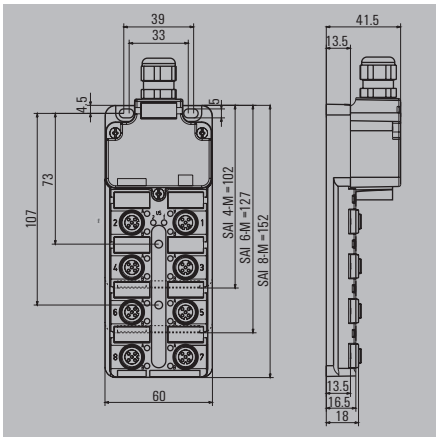
	M12 group outlet		5 m	10 m		
4-way, 4-pole	1267330000		1070650000	1070660000		
4-way, 5-pole			1070630000	1070640000		
6-way, 4-pole	1265940000		1265920000	1265930000		

M8 Line

	M12 group outlet	Solder version for PCB	5 m	10 m		
4-way, 3-pole	1828740000		1828720000	1828710000		
4-way, 4-pole			1849680000	1849690000		
6-way, 3-pole	1828730000	1057720000	1828700000	1828690000		
6-way, 4-pole			1849700000	1849670000		
8-way, 3-pole	1871680000		1828680000	1828670000		
8-way, 4-pole			1828620000	1828610000		
10-way, 3-pole	1877950000		1828660000	1828650000		
12-way, 3-pole			1828640000	1828630000		

Hood version





Ordering data

Complete modules	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
Without initiator-LED,for analogue signals	4 plug-in stations
	8 plug-in stations
Without initiator-LED,for analogue signals	8 plug-in stations
Tension-clamp connection	4 plug-in stations
Tension-clamp connection	8 plug-in stations
Base unit	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
Without initiator-LED,for analogue signals	4 plug-in stations
Without initiator-LED,for analogue signals	8 plug-in stations
Mounting hood	
	Screw connection
	Screw connection
	Tension clamp connection
	Tension-clamp connection
	Empty
Complete modules,NPN-switched	8 plug-in stations
Note	

SAI-4/6/8-M — 4-pole

Type	Qty.	Order No.
SAI-4-M 4P M12	1	1705920000
SAI-6-M 4P M12	1	1705930000
SAI-8-M 4P M12	1	1705940000
SAI-4 M 4P M12 UT	2	1705921000
SAI-6-M 4P M12 UT	2	1705931000
SAI-8-M 4P M12 UT	2	1705941000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050

Other versions on request

SAI-4/6/8-M — 5-pole

Type	Qty.	Order No.
SAI-4-M 5P M12	1	1701230000
SAI-6-M 5P M12	1	1701240000
SAI-8-M 5P M12	1	1701250000
SAI-4-M 5P M12 OL	1	1800000000
SAI-8-M 5P M12 OL	1	1740190000
SAI-8-M 5P M12 OL2	1	1816610000
SAI-4-M 5P M12 ZF	1	1854000000
SAI-8-M 5P M12 ZF III	1	1767880000
SAI-4-M 5P M12 UT	2	1701231000
SAI-6-M 5P M12 UT	2	1701241000
SAI-8-M 5P M12 UT	2	1701251000
SAI-4-M 5P M12 OL UT	2	1800001000
SAI-8-M 5P M12 OL UT	2	1740191000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050
SAI-4/6/8-MH LEER	1	1783460000
SAI-8-M 5P M12 NPN	1	1781060000

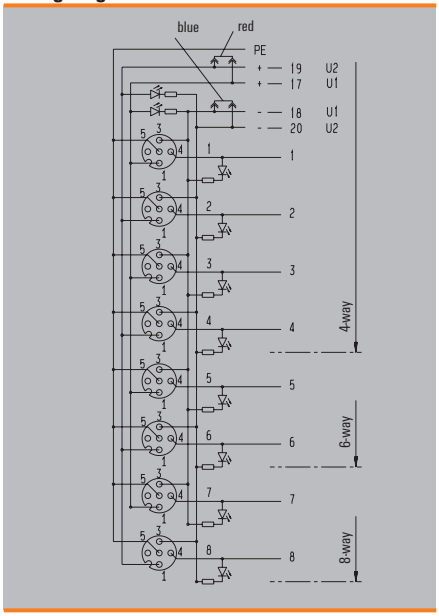
Other versions on request

Technical data

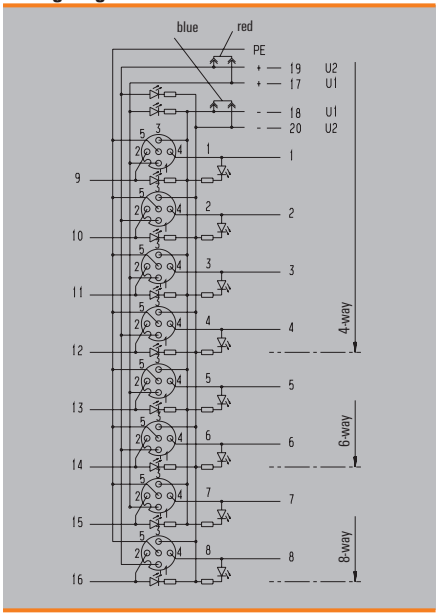
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16A total current
Clamping range up to 2.5 mm²; with screw connection

Wiring diagram

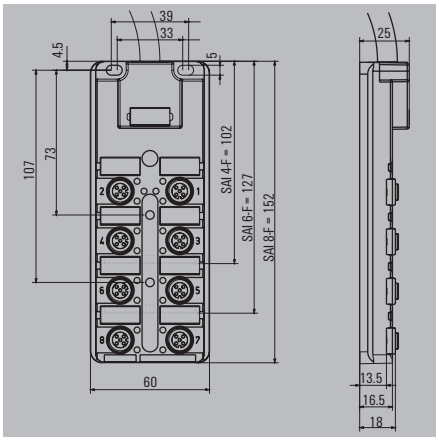


Wiring diagram



Fixed cable version





Ordering data

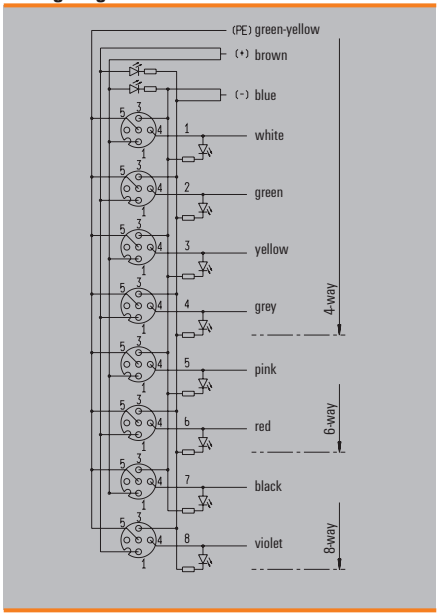
4-channel			SAI-4/6/8-F		4-pole	SAI-4/6/8-F		5-pole
			Type	Qty.	Order No.	Type	Qty.	Order No.
3 m cable length			SAI-4-F 4P PUR 3M	1	9456180000	SAI-4-F 5P PUR 3M	1	9456320000
5 m cable length			SAI-4-F 4P PUR 5M	1	9456190000	SAI-4-F 5P PUR 5M	1	9456330000
10 m cable length			SAI-4-F 4P PUR 10M	1	9456200000	SAI-4-F 5P PUR 10M	1	9456340000
15 m cable length			SAI-4-F 4P PUR 15M	1	9456210000	SAI-4-F 5P PUR 15M	1	9456350000
20 m cable length			SAI-4-F 4P PUR 20M	1	9456230000	SAI-4-F 5P PUR 20M	1	9456370000
6-channel								
3 m cable length			SAI-6-F 4P PUR 3M	1	9456460000	SAI-6-F 5P PUR 3M	1	9456600000
5 m cable length			SAI-6-F 4P PUR 5M	1	9456470000	SAI-6-F 5P PUR 5M	1	9456610000
10 m cable length			SAI-6-F 4P PUR 10M	1	9456480000	SAI-6-F 5P PUR 10M	1	9456620000
15 m cable length			SAI-6-F 4P PUR 15M	1	9456490000	SAI-6-F 5P PUR 15M	1	9456630000
20 m cable length			SAI-6-F 4P PUR 20M	1	9456510000	SAI-6-F 5P PUR 20M	1	9456650000
8-channel								
3 m cable length			SAI-8-F 4P PUR 3M	1	9456740000	SAI-8-F 5P PUR 3M	1	9456880000
5 m cable length			SAI-8-F 4P PUR 5M	1	9456750000	SAI-8-F 5P PUR 5M	1	9456890000
10 m cable length			SAI-8-F 4P PUR 10M	1	9456760000	SAI-8-F 5P PUR 10M	1	9456900000
15 m cable length			SAI-8-F 4P PUR 15M	1	9456770000	SAI-8-F 5P PUR 15M	1	9456910000
20 m cable length			SAI-8-F 4P PUR 20M	1	9456790000	SAI-8-F 5P PUR 20M	1	9456930000
8-channel with reinforced fixed cable*								
2 m cable length						SAI-8-F 5P 2M 0.5/1.0U	1	7915030000
5 m cable length						SAI-8-F 5P 5M 0.5/1.0U	1	9457590000
10 m cable length						SAI-8-F 5P 10M 0.5/1.0U	1	9457600000
15 m cable length						SAI-8-F 5P 15M 0.5/1.0U	1	1784510000
20 m cable length						SAI-8-F 5P 20M 0.5/1.0U	1	1784500000
Note			Other versions on request			Other versions on request		

Technical data

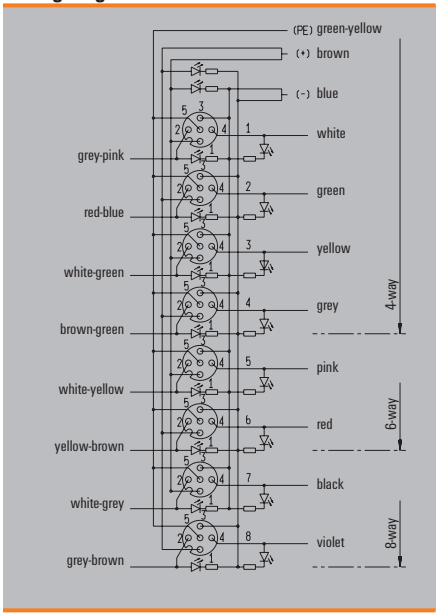
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

* 3x1 mm² and 16x0.5 mm² total current 12A

Wiring diagram



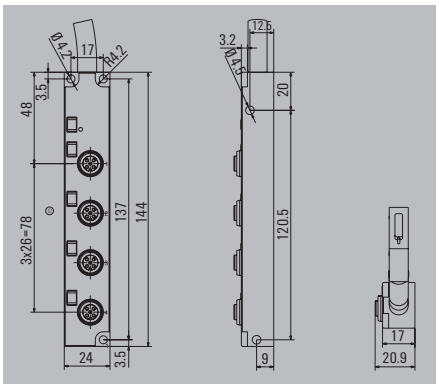
Wiring diagram



Fixed cable version
Thin design

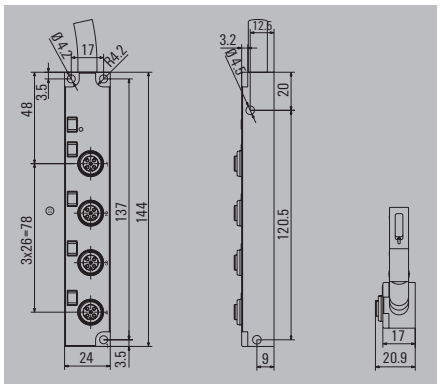
SAI-4-F M12 L





SAI-4-F M12 L





Ordering data

4-channel	
	5 m cable length
	10 m cable length
Note	

SAI-4-F M12 L — 4-pole

Type	Qty.	Order No.
SAI-4-F 4P M12 L 5M	1	**1070650000**
SAI-4-F 4P M12 L 10M	1	**1070660000**

Other versions on request

5-pole

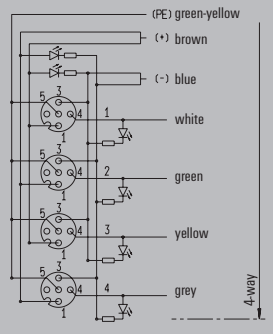
Type	Qty.	Order No.
SAI-4-F 5P M12 L 5M	1	**1070630000**
SAI-4-F 5P M12 L 10M	1	**1070640000**

Other versions on request

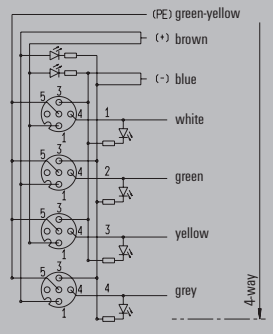
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



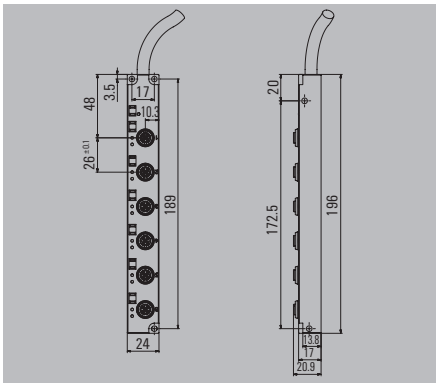
Dimensioned drawing



Fixed cable version
Thin design

SAI-6-F M12 L





Ordering data

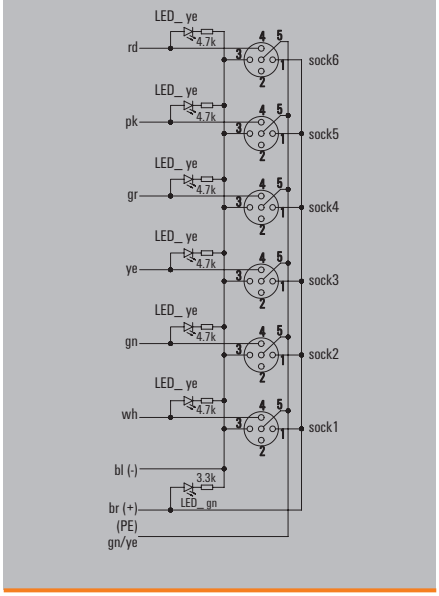
SAI-6-F M12 L		4-pole
Type	**Qty.**	**Order No.**
SAI-6-F 4P M12 L 5M	1	**1265920000**
SAI-6-F 4P M12 L 10M	1	**1265930000**

4-channel	
	5 m cable length
	10 m cable length
Note	

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

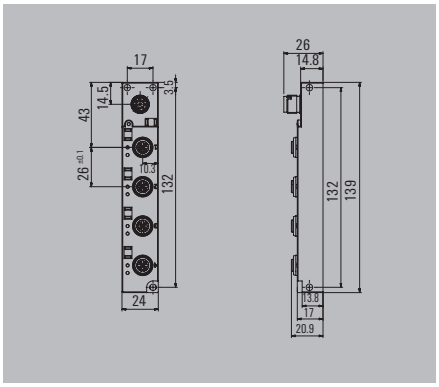
Dimensioned drawing



Line

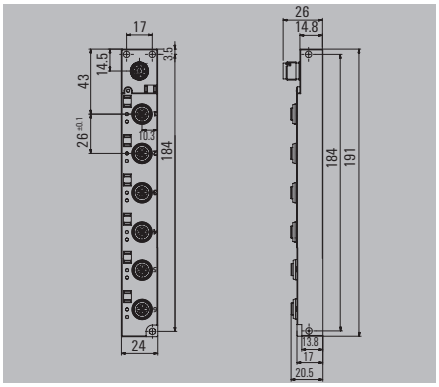
SAI-4-S





SAI-6-S





Ordering data

3-pole	
	4 plug-in stations
Note	

SAI-4-S

Type	Qty.	M12 Order No.
SAI-4-S8 4P M12 L	1	1267330000

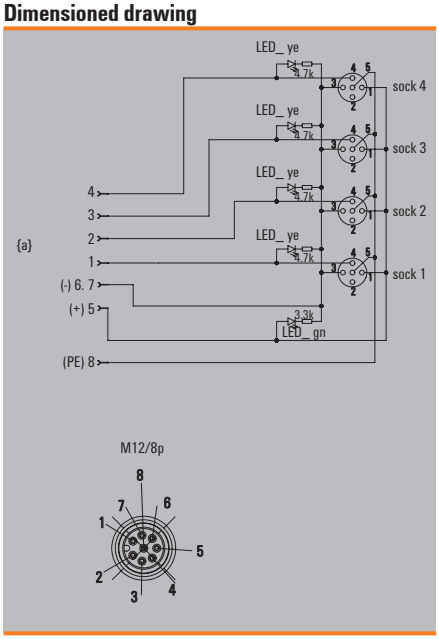
SAI-6-S

Type	Qty.	M12 Order No.
SAI-6-S12 4P M12 L	1	1265940000

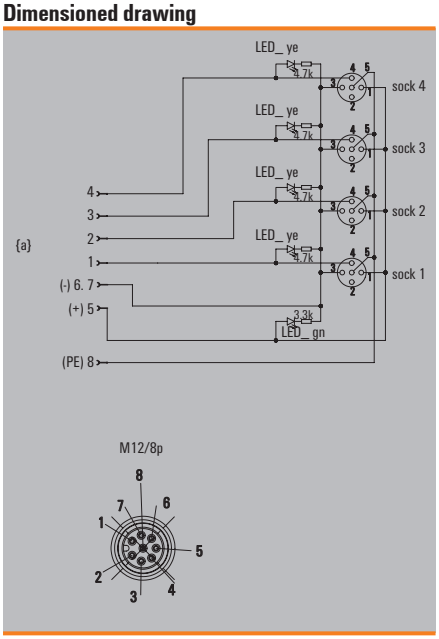
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



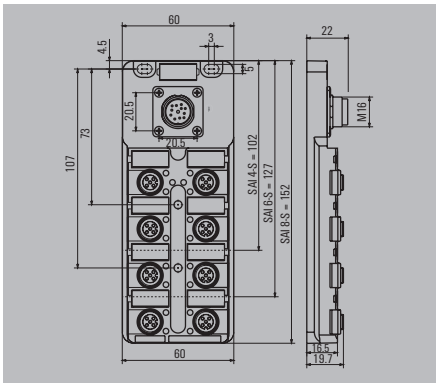
Dimensioned drawing



with M16 outlet

SAI-8-M16





Ordering data

Complete modules	
	8 plug-in stations
Note	

SAI-8-M16

4-pole

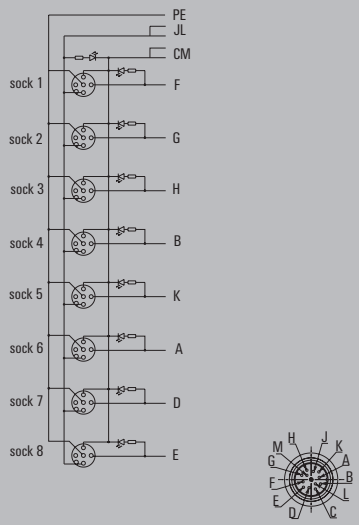
Type	Qty.	Order No.
SAI-8-M16 4P M12	1	**1831020000**

Other versions on request

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

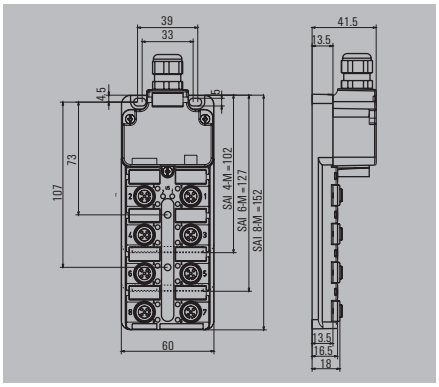
Dimensioned drawing



Hood version
with DIP-switch coding

SAI-8-M M12 DIP





Ordering data

Complete modules	
	8 plug-in stations
Note	

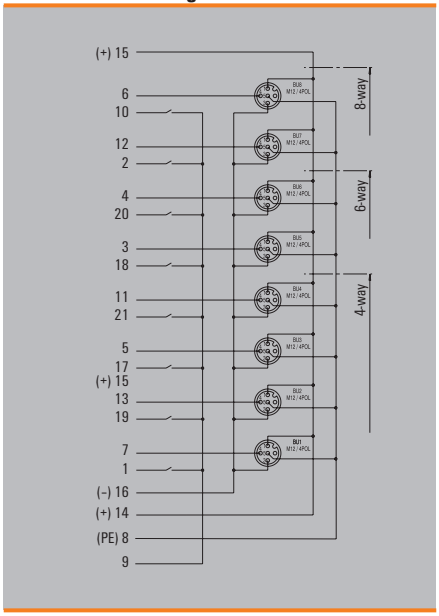
SAI-8-M M12 DIP — 4-pole

Type	Qty.	Order No.
SAI-8-M-4P M12 DIP	1	1059430000
Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



SAI ECO

SAI ECO – the cost-effective alternative

The Weidmüller SAI distributors with hoods have long since been standard fittings in machines and installations.

Why plastic threaded rings?

There are some applications, however, that call for a further version. In some applications it is necessary to avoid all metal parts. In such cases stainless steel is then used for screws and nuts only, but the M12 threaded rings can be made from plastic. Such modules can now be supplied on request.

The use of plastic rings results in a cheaper alternative. Although the service life and resistance are reduced when compared to metal, this is acceptable for some applications.



Special threaded ring increases durability

Cost-effective alternative

The ECO modules were initially developed to optimise costs. Many details of these modules were adapted in such a way that they can still be used wherever standard modules were used in the past, but the individual solutions have now become simpler:

- Markers: Markers clipped onto the module can no longer be printed with a identification system. It is easier to simply order the markers with the required printing from us. The markers in the proven MultiCard format are printed with our PrintJetPro Printer.
- One way disconnector: Up until now it was usual to achieve electrical isolation devised by Weidmüller by way of jumpers. To reduce costs, these jumpers have been replaced by solder bridges. These are simply cut to provide electrical isolation.
- No protective caps: Normally, Weidmüller M12 distributors are always supplied with two protective caps. These were not always required and so they have been omitted.
- Standard cable gland: The vibration resistant black screw cable gland has been replaced by a standard IP 68 cable gland.

These cost-cutting measures result in yet more applications for Weidmüller SAI distributors.

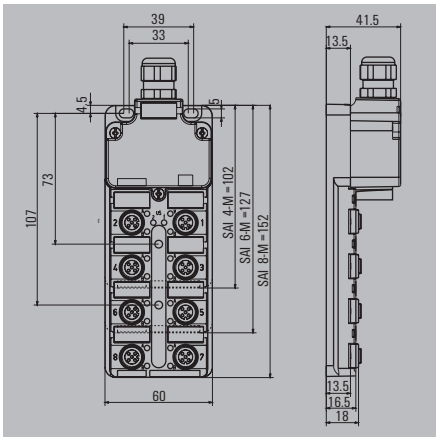
Greater reliability than with comparable systems

Plastic threaded rings are nothing new. However, the problem in the past was that the threaded rings formed part of the housing and were therefore made from the same plastic.

Weidmüller has once again pioneered a new and better solution. Weidmüller plastic rings are manufactured separately, which means that a more suitable, more durable material can be chosen. The Weidmüller production method is also patented.

Hood version





Ordering data

Complete modules	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
NPN	4 plug-in stations
NPN	8 plug-in stations
Base unit	
	4 plug-in stations
	6 plug-in slots
	8 plug-in stations
Mounting hood	
	Screw connection
	Tension-clamp connection
Note	

SAI-4/6/8-M — 5-pole

Type	Qty.	Order No.
SAI-4-M 5P M12 ECO	1	1892100000
SAI-6-M 5P M12 ECO	1	1892090000
SAI-8-M 5P M12 ECO	1	1892080000
SAI-4-M 5P M12 NPN ECO	1	1892100005
SAI-8-M 5P M12 NPN ECO	1	1892080005
SAI-4-M 5P M12 ECO UT	2	1892101000
SAI-6-M 5P M12 ECO UT	2	1892091000
SAI-8-M 5P M12 ECO UT	2	1892081000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050

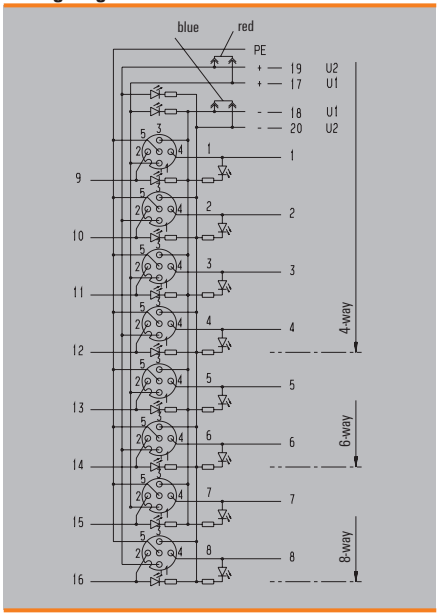
These distributors are supplied without protective caps and markers.

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Pocan
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16A total current
Clamping range up to 2.5 mm² with screw connection

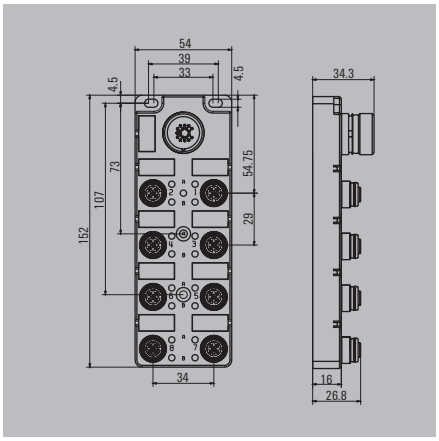
Wiring diagram



M12 with M23 outlet

with M23 outlet





Ordering data

Complete modules	
4 plug-in stations	
8 plug-in stations	
Note	

SAI-4/8-S — **4-pole**

Type	Qty.	Order No.
SAI-4-S 4P FC 1993	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

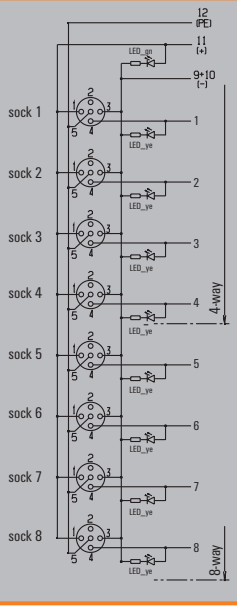
SAI-4/8-S — **5-pole**

Type	Qty.	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

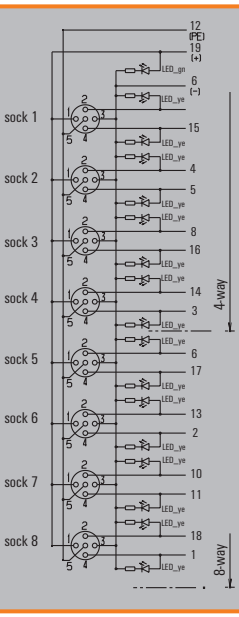
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

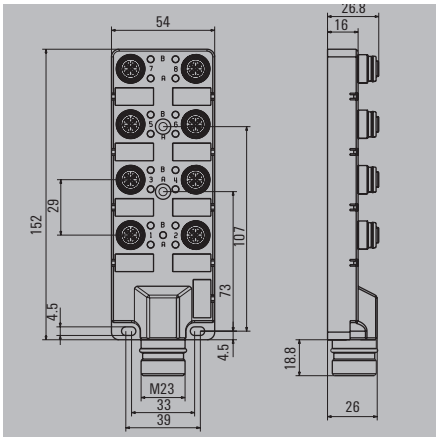


Wiring diagram



with M23 outlet on front





Ordering data

Complete modules	
	8 plug-in stations
Note	

SAI-4/8-SH — **4-pole**

Type	Qty.	Order No.
SAI-8-SH 4P FC	1	1859120000

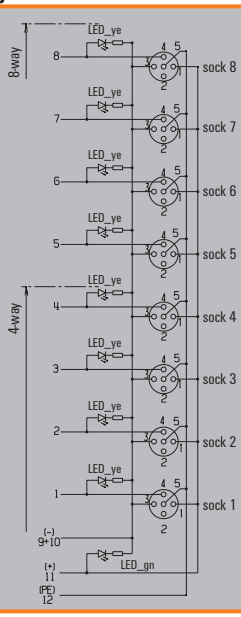
SAI-4/8-SH — **5-pole**

Type	Qty.	Order No.
SAI-8-SH 5P FC	1	1859140000

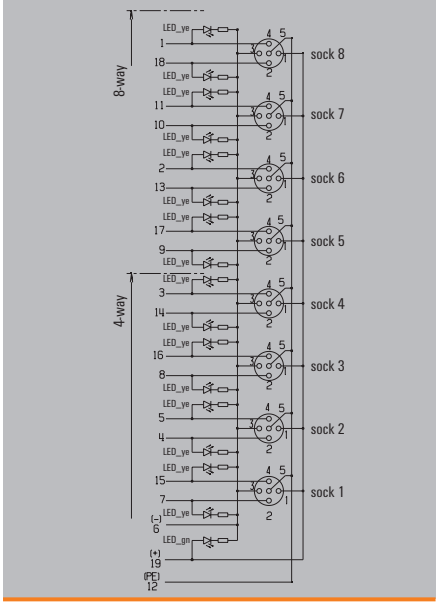
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

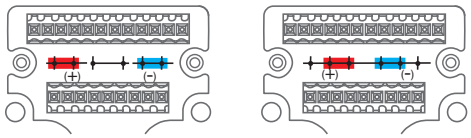


Wiring diagram



IDC – the quick connection





Factory setting
(see wiring diagram)
Current bridged

Current isolated





Hood version

- Compact IDC connection cuts production, commissioning and maintenance work
- Robust, knurled metal nut, safe handling requiring little force
- The dimensions of the IDC distributor correspond to and are compatible with the standard SAI distributor
- Plug-in connection module for bus cables enhances on-site flexibility
- Three sizes for 4, 6 and 8 channels
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel
- Individual on site assembly of sensor/actuator lines
- Fast, reliable connection with IDC connection element
- IP 67 Ingress protection classification

SAI fixed cable version

- Pre-assembled bus cables minimise installation work and avoid wiring errors
- 3 sizes for 4, 6 and 8 channels
- Highly flexible, cable carrier compatible bus cables with polyurethane (PUR/PVC) sheathing
  - 3 x 0.75 mm^2
  - n x 0.34 mm^2
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel

IDC connection element

Ordering data

Type	Qty.	Order No.
SAI-SA-3-IDC	1	9457720000
SAI-SA-4-IDC	1	1766810000



The significant advantages of Weidmüller tools:

- Easy handling
- Very small, ideal for confined assembly conditions
- Patented solution
- Metal Connectors

Insulation displacement connections on Weidmüller SAI distributors are currently the smallest but also the most robust connection elements on the market. Thanks to their extremely small dimensions, corresponding distributors are available with the same dimensions in M12 or IDC versions.
For large series, e.g. where more than 100 modules are used every year, we recommend using a special tool to simplify the handling of the connected lines even further. However, this tool is not always necessary because all connection elements can usually be readily tightened by hand.

IDC-Tool



Ordering data

Type	Qty.	Order No.
SAI-IDC-Tool	1	1795020000

Screwty®

The IDC elements can also be tightened with the Weidmüller Screwty®.



Ordering data

Type	Qty.	Order No.
Screwty®-M12-DM	1	1900001000

Protective cap M12 for IDCw

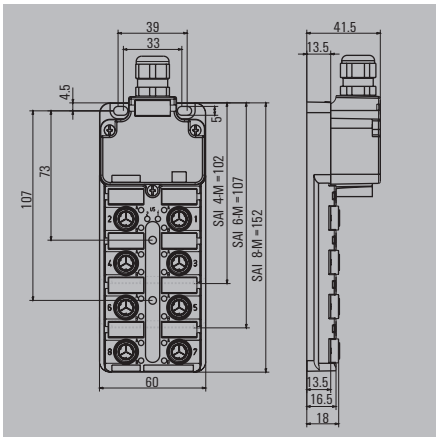


Ordering data

Type	Qty.	Order No.
SAI-SK-M12 IDC	10	1794850000

Hood version





Ordering data

Complete modules	
4 plug-in stations	
6 plug-in stations	
8 plug-in stations	
Base unit	
4 plug-in stations	
6 plug-in stations	
8 plug-in stations	
Mounting hood	
Screw connection	
Screw connection	
Tension clamp connection	
Tension-clamp connection	
Note	

SAI-4/6/8-M IDC — 3-pole

Type	Qty.	Order No.
SAI-4-M 3P IDC	1	1760040000
SAI-6-M 3P IDC	1	1760050000
SAI-8-M 3P IDC	1	1760060000
SAI-4-M 3P IDC UT	2	1760041000
SAI-8-M 3P IDC UT	2	1760061000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050

Other versions on request

SAI-4/6/8-M IDC — 4-pole

Type	Qty.	Order No.
SAI-4-M 4P IDC	1	1766780000
SAI-6-M 4P IDC	1	1766790000
SAI-8-M 4P IDC	1	1766800000
SAI-4-M 4P IDC UT	2	1766781000
SAI-6-M 4P IDC UT	2	1766791000
SAI-8-M 4P IDC UT	2	1766801000
SAI-4/6/8-MH BL3.5	1	1724750000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5	1	1752080000
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050

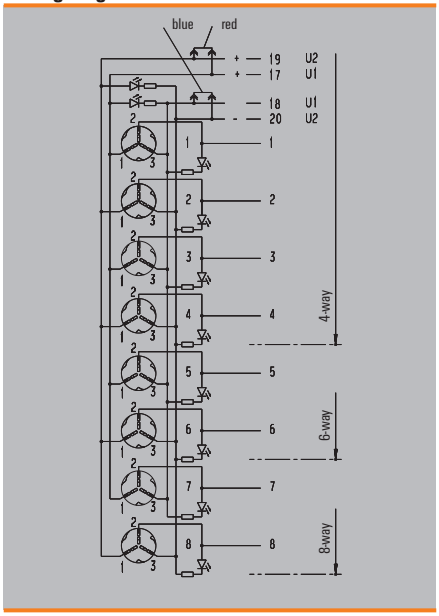
Other versions on request

Technical data

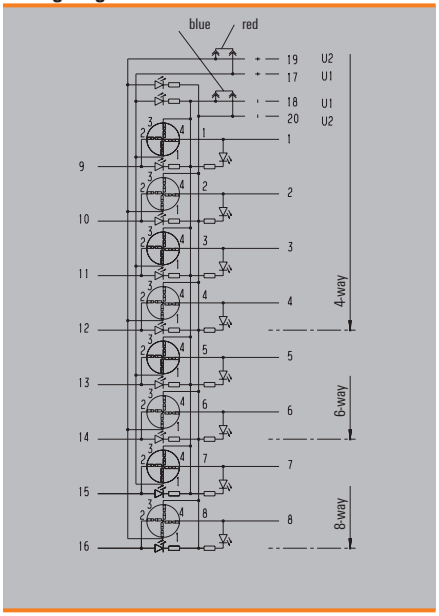
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16 A total current
Clamping range up to 2.5 mm² with screw connection

Wiring diagram

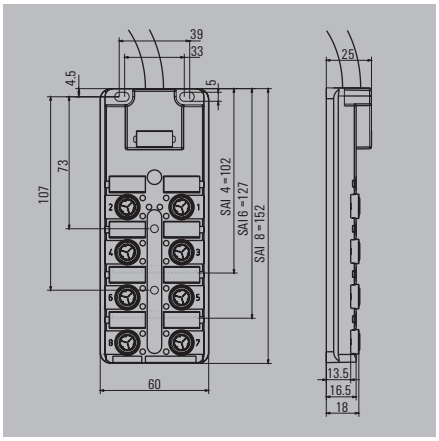


Wiring diagram



Fixed cable version





Ordering data

4-channel		
5 m cable length		
10 m cable length		
6-channel		
5 m cable length		
10 m cable length		
8-channel		
5 m cable length		
10 m cable length		
Note		

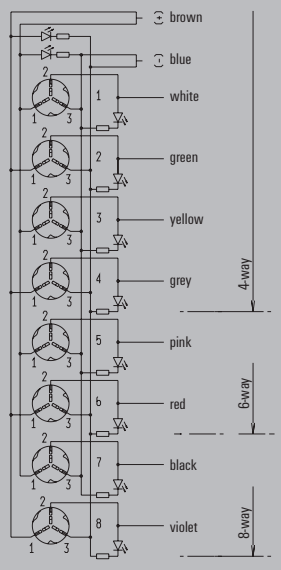
SAI-4/6/8-F IDC		3-pole
Type	**Qty.**	**Order No.**
SAI-8-F 3P IDC PUR 10M	1	**1766770000**
Other versions on request		

SAI-4/6/8-F IDC		4-pole
Type	**Qty.**	**Order No.**
SAI-4-F 4P IDC PUR 5M	1	**1766660000**
SAI-4-F 4P IDC PUR 10M	1	**1766670000**
SAI-6-F 4P IDC PUR 5M	1	**1766680000**
SAI-6-F 4P IDC PUR 10M	1	**1766690000**
SAI-8-F 4P IDC PUR 5M	1	**1766700000**
SAI-8-F 4P IDC PUR 10M	1	**1766710000**
Other versions on request		

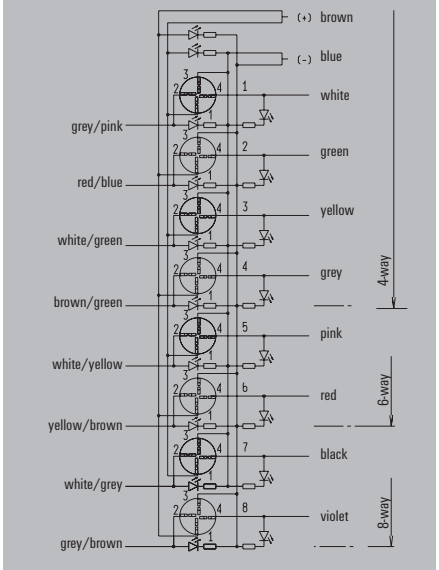
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



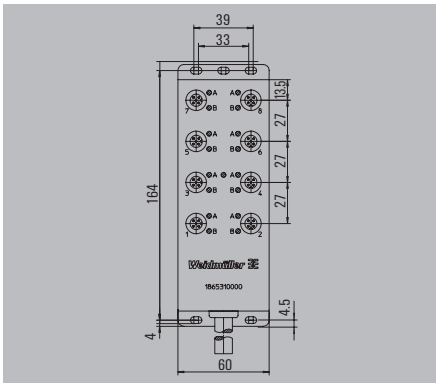
Wiring diagram



Fixed-cable version,
Specially suitable for use in food-processing machinery

SAI-8-F 5P M12 5M VA





Ordering data

SAI-8-F 5P M12 5M VA		5-pole
Type	**Qty.**	**Order No.**
SAI-8-F 5P M12 5M VA	1	**1865310000**

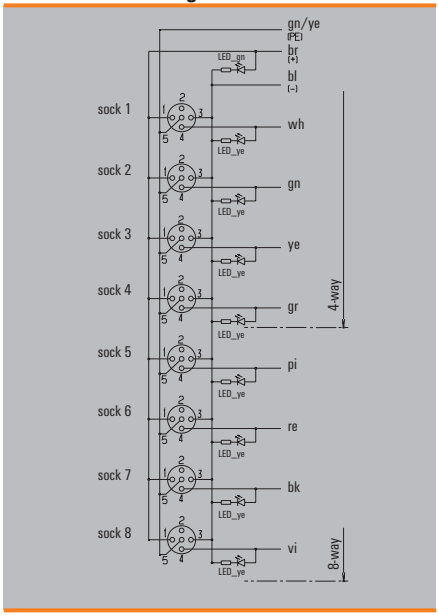
8-channel	
	5 m cable length
Note	

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	12 A
Pollution severity	3
Protection degree	IP69K
Ambient temperature range	-25...70 °C
Housing main material	Stainless steel, rust-proof
Contact carrier material	
Base material of contacts	CuZn
Screw socket	Stainless steel, rust-proof
Housing colour	silver
Fire behaviour	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Accessory (incl.): 4 protective caps for unused slots

Dimensioned drawing



Tension-clamp connection M12, stainless steel with shield connection



SAIS / SAIB VA

Straight



Ordering data

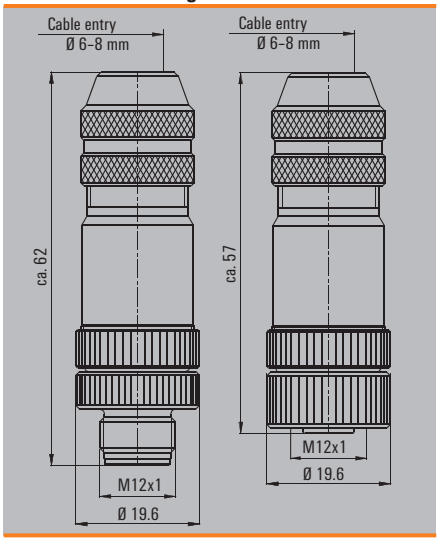
Male	
	A-coded, 5-pole, PG 9
	B-coded, 5-pole, PG 9
	D-coded, 5-pole, PG 9
Female	
	A-coded, 5-pole, PG 9
	B-coded, 5-pole, PG 9
Note	

Type	Qty.	Order No.
SAIS 5/9-VA	1	**1920700000**
SAIS 5/9-VA-B-COD	1	**1920720000**
SAIS 5/9-VA D-COD	1	**1920700001**
SAIB 5/9-VA	1	**1920710000**
SAIB 5/9-VA-B-COD	1	**1920730000**

Technical data

Type of connection	Tension-clamp connection
Housing main material	1.4404/316L
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD / D-COD)

Dimensioned drawing



Sensor-actuator distributors for special applications

All-metal
SAI-4/8-FMM M12



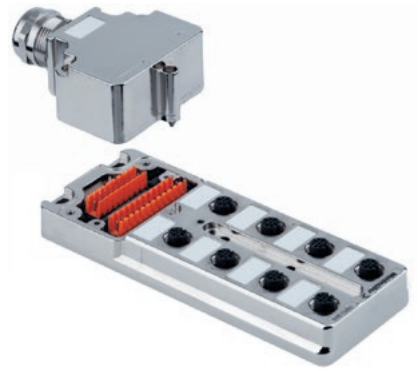
Shielded cable, e.g. for analogue initiators
Some applications need full shielding from sensor to control. This is possible with the all metal SAI distributors. The distributors are supplied with an EMC cable gland. Initiator LEDs are omitted.

Especially thick trunk cable
It is sometimes advisable to use the machine manufacturer's standard trunk cable. This cable will usually have a relatively large outside diameter and will therefore require plenty of space (SAI-4/6/8 MHD).

All-metal fixed cable distributors
Weidmüller metal distributors have proved their worth in many situations. They are available as 4 and 8 channel M12 versions with cable lengths of 5 or 10 m. Metal distributors are also necessary when ESD requirements must be complied with.
The conductive metal surface provides low surface resistance.

Advantages:
- No ESD/EMC problems
- High resistance to chemicals or mechanical loads
- Standard mounting dimensions

SAI-M with metal hood
SAI-4/6/8 MMS SAI-4/6/8 MM
MMS: **M**odular, **M**etal, **S**hield
MM: **M**odular, **M**etal



SAI-4/6/8 MMS with EMC cable gland in metal housing

For especially tough conditions where plastic is totally unsuitable. In certain cases it makes sense to avoid the use of plastics altogether. In such cases a distributor made completely from metal is required that can be connected to others using metal cable glands, without additional connections for the shielding.

SAI-4/6/8 MH
MH: **M**odular, **H**igh



Cable gland: M20

For cables with outside insulation diameter from 10 mm to 14 mm. Listed below are just some of the cable sizes that are suitable for the SAI distributor with M20 cable gland:
- 14 x 0.50 mm² to 16 x 0.50 mm²
- 8 x 0.75 mm² to 15 x 0.75 mm²
- 8 x 1.00 mm² to 10 x 1.00 mm²
- 5 x 1.50 mm² to 7 x 1.50 mm²

SAI-4/6/8 MHD
MHD: **M**odular, **H**igh, seale**D**
(for especially thick cables)



Cable gland: M25

For cables with outside insulation diameter from 13 mm to 18 mm. Listed below are just some of the cable sizes that are suitable for the SAI distributor with M25 cable gland:
- 21 x 0.50 mm²
- 18 x 0.75 mm² to 21 x 0.75 mm²
- 14 x 1.00 mm² to 20 x 1.00 mm²
- 8 x 1.50 mm² to 16 x 1.50 mm²

Overview of metal distributors

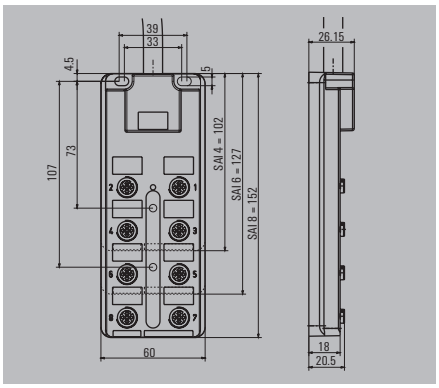
Type	SAI-UT	Sockets	M12	Poles–Hood	Form	Cable gland	Cable gland	Length	Order No.
SAI-4-MH-4P M12	PBT	4	4	Zn-G	high	M20	plastic		**1705922000**
SAI-6-MH-4P M12	PBT	6	4	Zn-G	high	M20	plastic		**1705932000**
SAI-8-MH-4P M12	PBT	8	4	Zn-G	high	M20	plastic		**1705942000**
SAI-4-MH-5P M12	PBT	4	5	Zn-G	high	M20	plastic		**1701232000**
SAI-6-MH-5P M12	PBT	6	5	Zn-G	high	M20	plastic		**1701242000**
SAI-8-MH-5P M12	PBT	8	5	Zn-G	high	M20	plastic		**1701252000**
SAI-8-MHD-5P M12	PBT	8	5	Zn-G	high	M25	plastic		**1701253000**
SAI-4-MHD-4P M12	PBT	4	4	Zn-G	high	M25	plastic		**1705923000**
SAI-8-MHD-4P M12	PBT	8	4	Zn-G	high	M25	plastic		**1705943000**
SAI-4-MMS-4P M12	Zn-G	4	4	Zn-G	low	M20	EMC		**1783540000**
SAI-8-MMS-4P M12	Zn-G	8	4	Zn-G	low	M20	EMC		**1783530000**
SAI-4-MMS-5P M12	Zn-G	4	5	Zn-G	low	M20	EMC		**1783520000**
SAI-8-MMS-5P M12	Zn-G	8	5	Zn-G	low	M20	EMC		**1783510000**
SAI-4-MM-5P M12	Zn-G	4	5	Zn-G	low	M20	brass		**1783500000**
SAI-8-MM-5P M12	Zn-G	8	5	Zn-G	low	M20	brass		**1783490000**
SAI-4/6/8 MH-MH BL 3.5				Zn-G	high	M20	plastic		**1724752000**
SAI-4/6/8 MH-MHD BL 3.5				Zn-G	high	M25	plastic		**1724753000**
SAI-8-MH-5P M12 ZF III	PBT	8	5	Zn-G	high	M20	plastic		**1782760000**
SAI-8-MMS-5P M12 ZF III	Zn-G	8	5	Zn-G	high	M20	plastic		**1782740000**
SAI-4/6/8 MH-MH BL-ZF 3.5				Zn-G	high	M20	plastic		**1782750000**
SAI-4-FMM-4P M12 5M	Zn-G	4	4					5 m	**9456190002**
SAI-4-FMM-4P M12 10M	Zn-G	4	4					10 m	**9456200002**
SAI-8-FMM-4P M12 5M	Zn-G	8	4					5 m	**9456750002**
SAI-8-FMM-4P M12 10M	Zn-G	8	4					10 m	**9456760002**

Note: The cable outside diameter can vary from manufacturer to manufacturer. It is therefore possible that the cable glands hold other cables firmly despite a different strand lay-up. In each case, it is best to first measure the cable diameter and then choose an appropriate distributor.

Fixed cable version

SAI-4-FMM





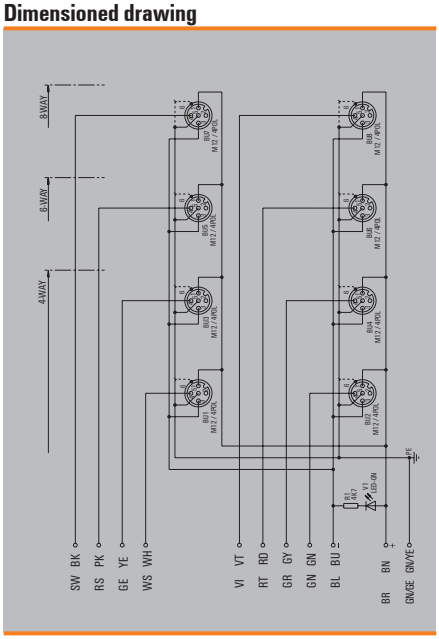
Ordering data

SAI-4-FMM		4-pole
Type	**Qty.**	**Order No.**
4-channel		
5 m cable length		
SAI-4-FMM-4P M12 5M	4	**9456190002**
10 m cable length		
SAI-4-FMM-4P M12 10M	3	**9456200002**
8-channel		
5 m cable length		
SAI-8-FMM-4P M12 5M	1	**9456750002**
10 m cable length		
SAI-8-FMM-4P M12 10M	3	**9456760002**
Note		
Additional variants on request Bus cable is not shielded		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

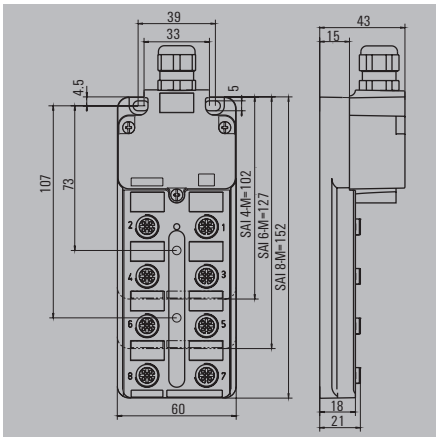
Dimensioned drawing



Hood version







Ordering data

Complete modules, 4-pole	
	4 plug-in stations
	8 plug-in stations
Complete modules, 5-pole	
	4 plug-in stations
	8 plug-in stations
Tension-clamp connection,high cover	8 plug-in stations
Base unit	
	8 plug-in stations
Mounting hood	
	Screw connection
Note	

SAI-4/6/8-MMS — M12

Type	Qty.	Order No.
SAI-4-MMS 4P M12	1	1783540000
SAI-8-MMS 4P M12	1	1783530000
SAI-4-MMS 5P M12	1	1783520000
SAI-8-MMS 5P M12	1	1783510000
SAI-8-MM 5P M12 UT	2	1783491000
SAI-4/6/8 MH-MM BL 3.5	1	1724754000

With EMC cable gland

SAI-4/6/8-MM — M12

Type	Qty.	Order No.
SAI-4-MM 5P M12	1	1783500000
SAI-8-MM 5P M12	1	1783490000
SAI-8-MMH 5P M12 ZF	1	1782740000
SAI-8-MM 5P M12 UT	2	1783491000
SAI-4/6/8 MH-MM BL 3.5	1	1724754000

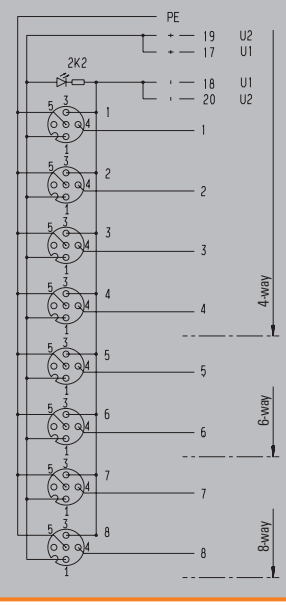
MM without initiator LED and with standard metal cable gland

Technical data

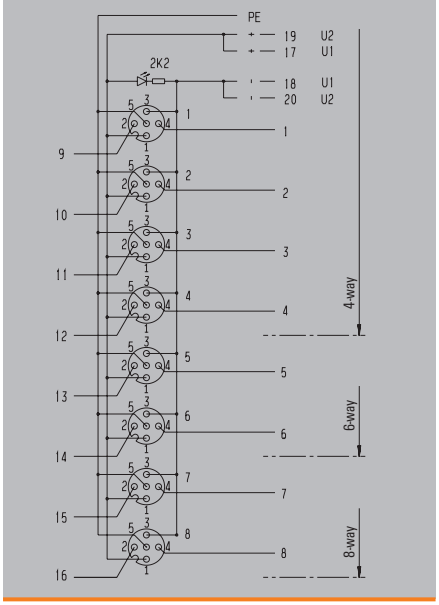
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

Complete shielding transmission via the housing

Wiring diagram

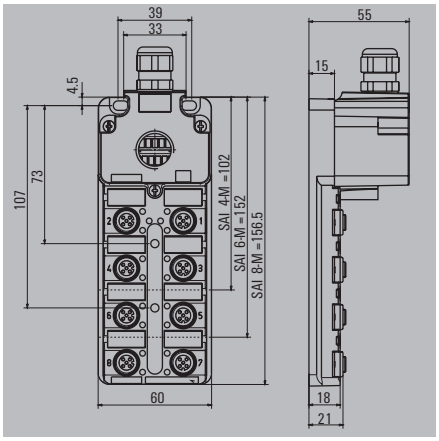


Wiring diagram



Hood version with M20 outlet





Ordering data

Complete modules	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
Tension-clamp connection	8 plug-in stations
Mounting hood	
	Screw connection
	Tension clamp connection
Note	

SAI-4/6/8-MH — 4-pole

Type	Qty.	Order No.
SAI-4-MH-4P M12	1	1705922000
SAI-6-MH-4P M12	1	1705932000
SAI-8-MH-4P M12	1	1705942000
SAI-4/6/8 MH-MH BL 3.5	1	1724752000
SAI-4/6/8 MH MH BLZF3,5	1	1782750000

Other versions on request

SAI-4/6/8-MH — 5-pole

Type	Qty.	Order No.
SAI-4-MH-5P M12	1	1701232000
SAI-6-MH-5P M12	1	1701242000
SAI-8-MH-5P M12	1	1701252000
SAI-8-MH-5P M12 ZF III	1	1782760000
SAI-4/6/8 MH-MH BL 3.5	1	1724752000
SAI-4/6/8 MH MH BLZF3,5	1	1782750000

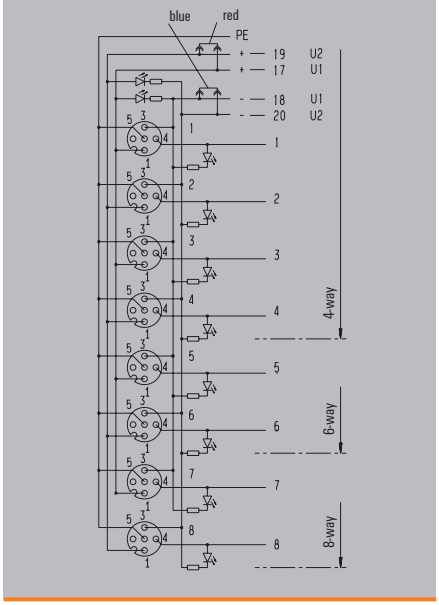
Other versions on request

Technical data

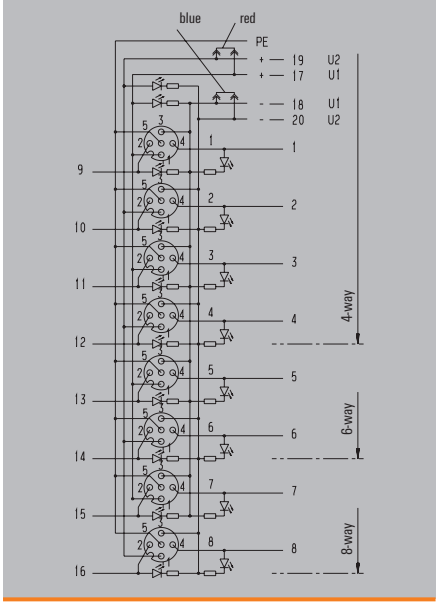
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16 A total current
Clamping range up to 2.5 mm² with screw connection

Wiring diagram

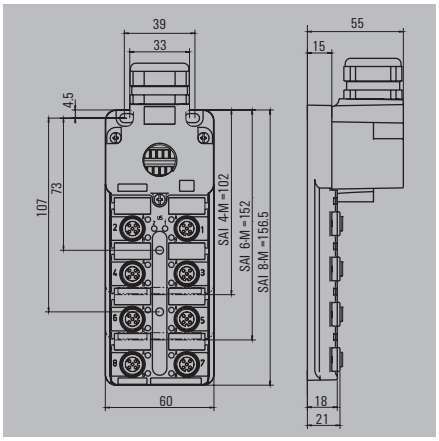


Wiring diagram



Hood version with M25 outlet





Ordering data

Complete modules	
4 plug-in stations	
8 plug-in stations	
Mounting hood	
Screw connection	
Note	

SAI-4/6/8-MHD — **4-pole**

Type	Qty.	Order No.
SAI-4-MHD-4P M12	1	1705923000
SAI-8-MHD-4P M12	1	1705943000
SAI-4/6/8 MH-MHD BL 3.5	1	1724753000

Other versions on request

SAI-4/6/8-MHD — **5-pole**

Type	Qty.	Order No.
SAI-8-MHD-5P M12	1	1701253000
SAI-4/6/8 MH-MHD BL 3.5	1	1724753000

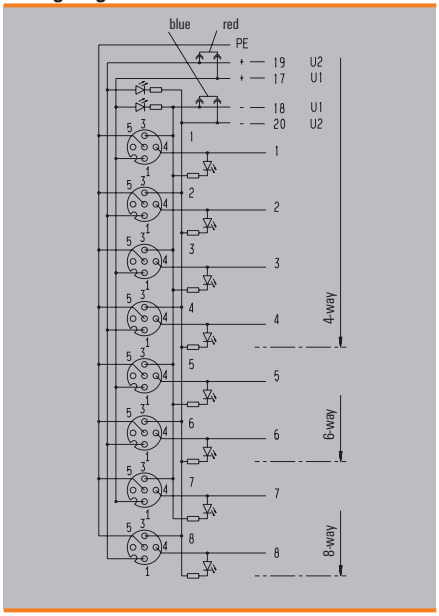
Other versions on request

Technical data

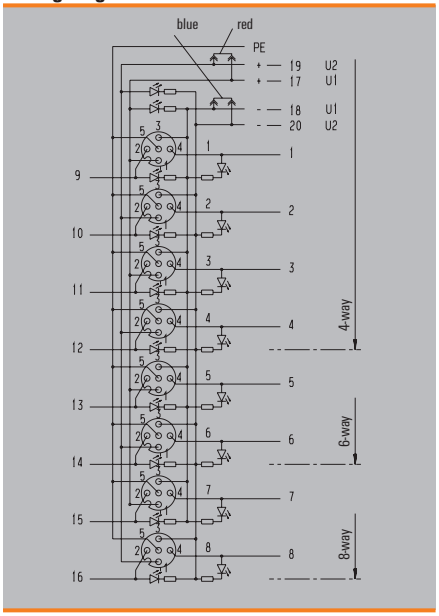
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

With dual power supply: 2x8 = 16 A total current
Clamping range up to 2.5 mm² with screw connection

Wiring diagram



Wiring diagram



For switching with five no-voltage contacts in an M12 without LED

with hood



Emergency stop wiring

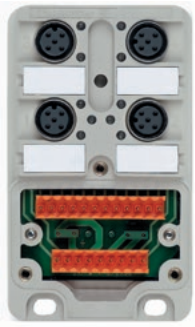
Sometimes a machine builder will need more than two floating contacts in one M12 plug-in connector. This is the case, for example, in the wiring for some "emergency stop" circuits. It was for this application that Weidmüller developed the 1:1 SAI distributor.

This SAI distributor has four M12 plug-in connectors with five floating contacts in one socket connector. The distributor is supplied complete with hood.

When connecting PT100 3- and 4-conductor initiators, we recommend the new shielded metal version. If you need other circuit configurations, simply contact us.

Note: This distributor should not be used as the base module for active bus distributors.

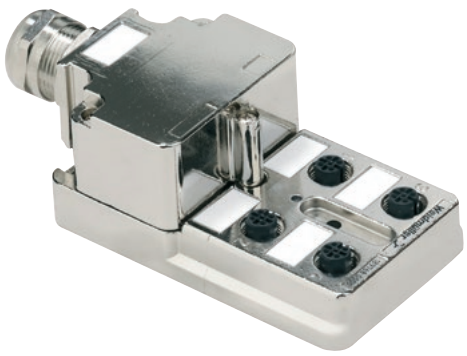
base element



Wiring diagram

Socket	Contact	BL 3.5 contact
1	1	1
1	2	2
1	3	3
1	4	4
1	5	5
2	1	6
2	2	7
2	3	8
2	4	9
2	5	10
3	1	11
3	2	12
3	3	13
3	4	14
3	5	15
4	1	16
4	2	17
4	3	18
4	4	19
4	5	20
-	-	21

metal



Technical data

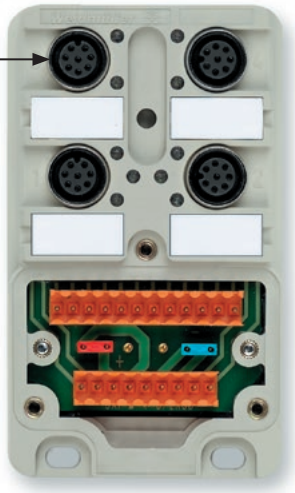
Current per channel	2 A
Total current	8 A
LEDs	No LEDs are integrated at any point.

Ordering data

Type	Qty.	Order No.
SAI-4-M 5P M12 1:1 (plastic hood)	1	1806010000
Base element (plastic)	1	1806011000
SAI-4-MMS 5P M12 1:1 (metal hood)	1	1897680000

SAI distributor with 8 poles per M12





Applications

This distributor can be used both as a base module for satellite solutions (SAI-Combi) and for connecting sensors/units with more than two contacts.

Sensors, units with more than two signals in one line

As one socket in this module contains four signal paths and, in addition, two +, two – and one PE, components with more than two signal lines can be connected to this module. Eight-pole connecting cables are available on request.

Wiring

M12 socket	M12 contact	BL 3.5 connection	PLC input	Supply
1	1	1	E0.0	
1	2	3	E0.1	
1	3	5	E0.2	
1	4	7	E0.3	
2	1	2	E0.4	
2	2	4	E0.5	
2	3	6	E0.6	
2	4	8	E0.7	
3	1	9	E1.0	
3	2	11	E1.1	
3	3	13	E1.2	
3	4	15	E1.3	
4	1	10	E1.4	
4	2	12	E1.5	
4	3	14	E1.6	
4	4	16	E1.7	
1/3	5	17		24 V
2/4	5	19		24 V
1/3	6/7	18		0 V
2/4	6/7	20		0 V
1/2/3/4	8	PE		PE

The jumpers in the distributor enable the potentials of 17 and 19 or 18 and 20 to be bridged Contacts 6 and 7 are bridged in the 8-pole M12 in order to increase the current-carrying capacity. total current per M12: 2 A, signal current per pin: 1 A

Ordering data

Type	Qty.	Order No.
Complete module: SAI-4-M 8P M12	1	**1807640000**
Base separate: SAI-4-M M12 UT	1	**1807641000**
Matching hood passive: SAI-4/6/8-MH-BL3.5	1	**1724750000**
Technical information: The distributor does not include any signalling LEDs. Supply LEDs and electrical isolation are provided		

Fixed cable version

Fixed cable version



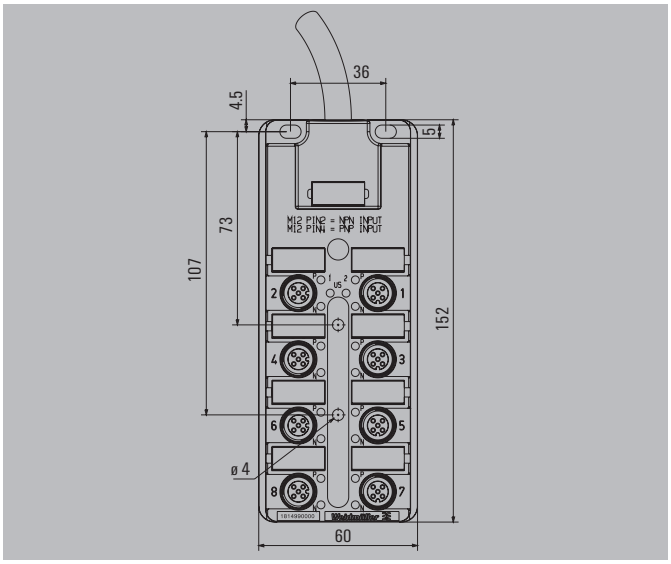
This distributor includes the option of attaching either a PNP sensor or an NPN sensor with 2 or 3 conductor connection to an M12 socket.

Eight inputs are available in total. In the case of a switched sensor, a + signal on the corresponding wire is connected through and the appropriate LED is illuminated.

The upper LED “N” is illuminated for NPN sensors and the lower LED “P” for PNP sensors. Do not connect a T-piece to the M12 socket.

The existing M12 plug-in connectors are wired in such a manner that the PNP sensor can be connected to pin 4 and the NPN sensor to pin 2.

The distributor has eight channels and 5 m of cable. Other versions are also available.

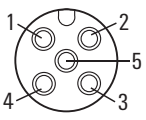


Pin assignment

M12 socket	Pin	Function	Pin	Function	Output	Wire colour	Wire size
1	4	PNP	2	NPN	1	white	0.34 mm²
2	4	PNP	2	NPN	2	green	0.34 mm²
3	4	PNP	2	NPN	3	yellow	0.34 mm²
4	4	PNP	2	NPN	4	grey	0.34 mm²
5	4	PNP	2	NPN	5	pink	0.34 mm²
6	4	PNP	2	NPN	6	red	0.34 mm²
7	4	PNP	2	NPN	7	black	0.34 mm²
8	4	PNP	2	NPN	8	violet	0.34 mm²
all	1	24 V DC				brown	0.75 mm²
all	3	0 V DC				blue	0.75 mm²
all	5	PE				green/yellow	0.75 mm²

M12 sockets

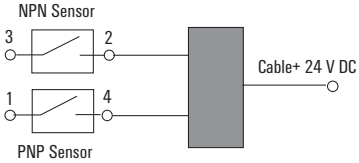
Pin 1 = +24 V DC
Pin 2 = NPN Input
Pin 3 = 0 V DC
Pin 4 = PNP Input
Pin 5 = PE



Technical data

Operating voltage	24 V DC ±20 %
Operation temperature	0...80 °C
Storage temperature	-25...80 °C
Ingress protection class	IP 68
PUR cable	5 m
Max. no-load current for 2-wire NPN sensors	2 mA DC

Wiring diagram (schematic)



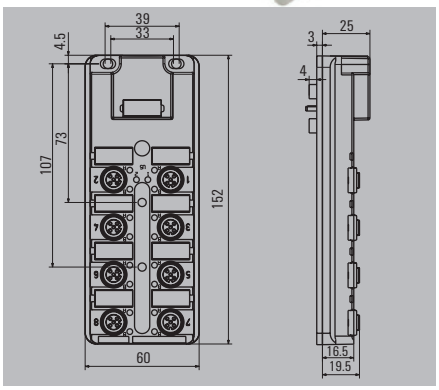
Ordering data

Type	Qty.	Order No.
SAI-8-F 5P NPN-PNP 5M	1	1814990000

Wall bushing

SAI-8-B 5P M12 SL





Ordering data

SAI-8-B 5P M12 SL		5-pole
Type	**Qty.**	**Order No.**
SAI-8-B 5P M12 SL	1	**1847560000**

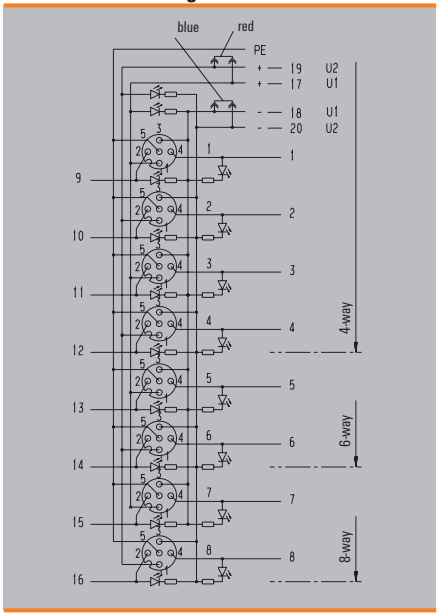
Note

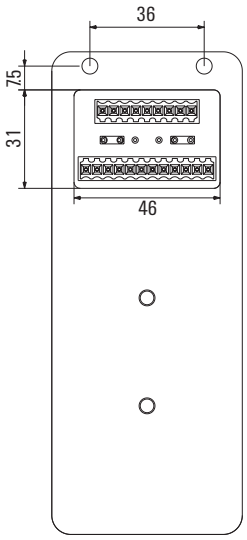
BL 3.5 connector included in delivery

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	10 A
Pollution severity	3
Protection degree	IP65
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing





Overview

Distributors for system cabling

On site distribution is becoming more important. For example, in some places the IP 20 I/O module has to be mounted in housings directly on the machine. This is where a simplified form of wiring is essential.

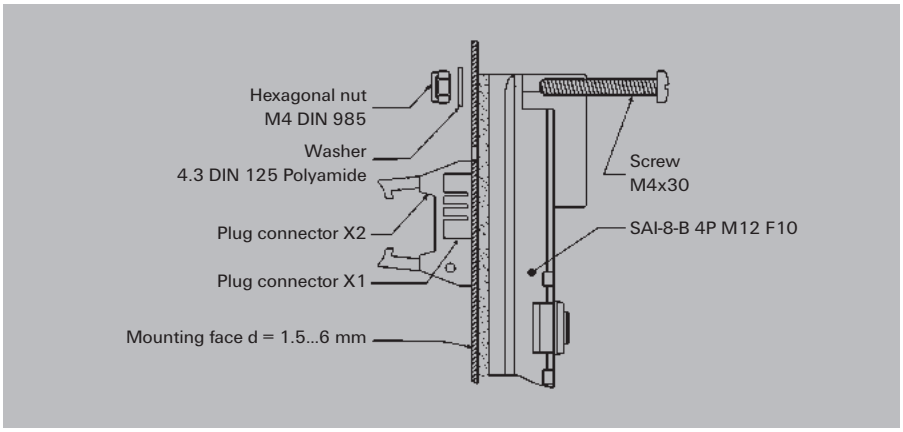
Weidmüller now offers two simple solutions

- A distributor equipped at the rear with a standardised ribbon cable connector, which is compatible with the Weidmüller PLC system interface.
- Weidmüller also offers a unique solution for feeding bus cables through panels that can be plugged in from both sides.

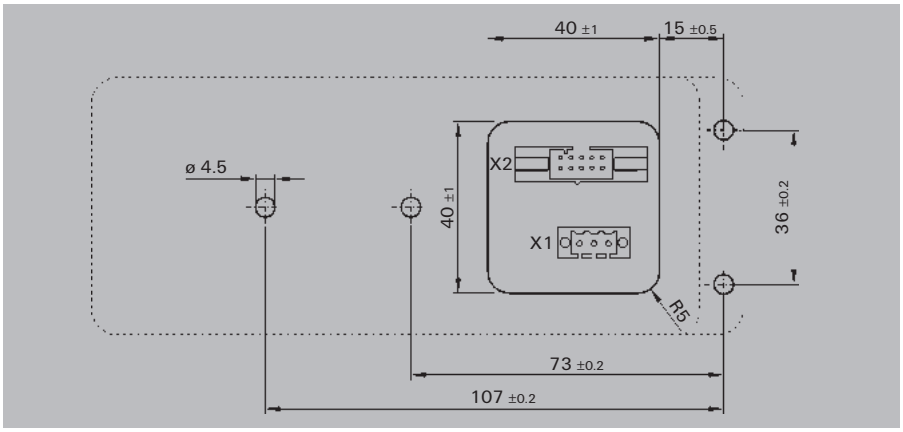
Advantages

- Sensors and actuators can be plugged in from outside
- Through-panel version can be mounted in cut outs in steel panels
- Standardised ribbon cable connector inside
- Plus: M12 through-panel feed that can be plugged in from both sides





Drilling template



Advantages of system cabling

Fast

- Time saving installation
- Reduces commissioning and trouble-shooting times
- On site wiring cuts wiring costs

Safe

- Reduces installation errors
- Using system cables instead of individual wires improves clarity in control cabinets
- Direct marking corresponding to the PLC

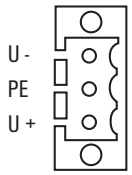
Variability

- Additional I/O modules available
- Cable length options
- Easy replacement of I/O interfaces provides flexibility

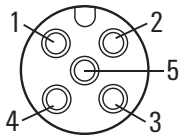
Contact assignment
Male connector X1

M12 socket		Male connector X1
1 ... 8	Pin 1	U +
1 ... 8	Pin 3	U -
1 ... 8	Pin 5	PE

Male connector X1



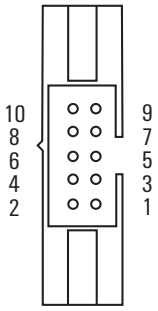
M12 socket



Contact assignment
Male connector X2

M12 socket		Male connector X2
1	Pin 4	1
2	Pin 4	2
3	Pin 4	3
4	Pin 4	4
5	Pin 4	5
6	Pin 4	6
7	Pin 4	7
8	Pin 4	8
1 - 8	Pin 1	9
1 - 8	Pin 3	10

Male connector X2



Note:
You will find further products for Interface units and PLC solutions in the Electronic catalogue 4.5.

E

Technical data

Operating voltage	10 – 30 V (DC)
Outputs	max. 1 A per channel / max. 8 A in total
Inputs	max. 1 A in total
Mounting conditions	
Mounting surface	sheet steel, flat, min. 1.5 mm thick, or panels with at least equivalent stability, max. 6 mm thick
Surface temperature	max. 40 °C
Ingress protection class	IP 67/IP 68 only in conjunction with control cabinets with equivalent class of protection
Fixings	4 screws + washers + nuts / torque: 0.8 Nm
Note:	Connect the male connector 3.5 (X1) when using actuators

Ordering data

	Type	Qty.	Order No.
Distributor	SAI-8-B 4P M12 F10	1	1812170000
Male connector X1	BL 3.50/07/180 SN OR BX	72	1597410000

Pre-assembled hood version

In some cases, it can be advantageous to receive the hoods in pre-assembled form.
Here MF means: basic modules are supplied along with assembled hoods.
Here MHF are the assembled hoods only.
The wire cross-sections are 3 x 1 mm² and n x 0.34 mm². The quality of conduction is identical to that of fixed cable distributors.
Technical data can be found on pages W.2 and W.9



SAI distributor with pre-assembled hood
Colour-coded cable

Ordering data — 4-pole

Type	Length	Order No.
8-channel		
SAI-8-MF 4P PUR 5M	5 m	1799960000
SAI-8-MF 4P PUR 10M	10 m	1789190000

Ordering data — 5-pole

Type	Length	Order No.
4-channel		
SAI-4-MF 5P PUR 5M	5 m	1804600000
SAI-4-MF 5P PUR 10M	10 m	1804580000
8-channel		
SAI-8-MF 5P PUR 5M	5 m	1804590000
SAI-8-MF 5P PUR 10M	10 m	9457430000

Pre-assembled hood
Colour-coded cable

Ordering data — 4-pole

Type	Length	Order No.
SAI-4/6/8-MHF 4P PUR 4M	4 m	1791450400
SAI-4/6/8-MHF 4P PUR 6M	6 m	1791450600
SAI-4/6/8-MHF 4P PUR 9M	9 m	1791450900
SAI-4/6/8-MHF 4P PUR14M	14 m	1791451400
SAI-4/6/8-MHF 4P PUR20M	20 m	1791452000
SAI-4/6/8-MHF 4P PUR28M	28 m	1791452800
SAI-4/6/8-MHF 4P PUR34M	34 m	1791453400

Matching base module

Type	Qty.	Order No.
SAI-4-M-4PM12UT	1	1705921000
SAI-6-M-4PM12UT	1	1705931000
SAI-8-M-4PM12UT	1	1705941000

Pre-assembled hood

Ordering data — 5-pole

Type	Length	Order No.
SAI-4/6/8-MHF 5P PUR 4M	4 m	1791460400
SAI-4/6/8-MHF 5P PUR 6M	6 m	1791460600
SAI-4/6/8-MHF 5P PUR 9M	9 m	1791460900
SAI-4/6/8-MHF 5P PUR10M	10 m	1791461000
SAI-4/6/8-MHF 5P PUR14M	14 m	1791461400
SAI-4/6/8-MHF 5P PUR16M	16 m	1791461600
SAI-4/6/8-MHF 5P PUR20M	20 m	1791462000
SAI-4/6/8-MHF 5P PUR28M	28 m	1791462800
SAI-4/6/8-MHF 5P PUR34M	34 m	1791463400
SAI-4/6/8-MHF 5P PUR40M	40 m	1791464000
SAI-4/6/8-MHF 5P PUR50M	50 m	1791465000
SAI-4/6/8-MHF 5P PUR55M	55 m	1791465500

Matching base module

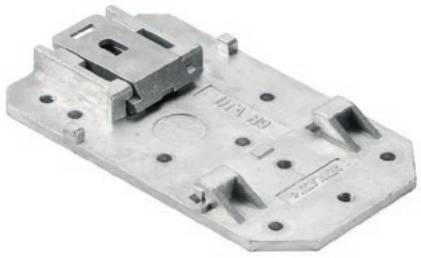
Type	Qty.	Order No.
SAI-4-M-5PM12UT	1	1701231000
SAI-6-M-5PM12UT	1	1701241000
SAI-8-M-5PM12UT	1	1701251000

Protective cap for hooded distributor, empty,
Terminal rail foot for distributor

SAI-4/6/8-MH LEER



SAI-TS35 MF



Ordering data

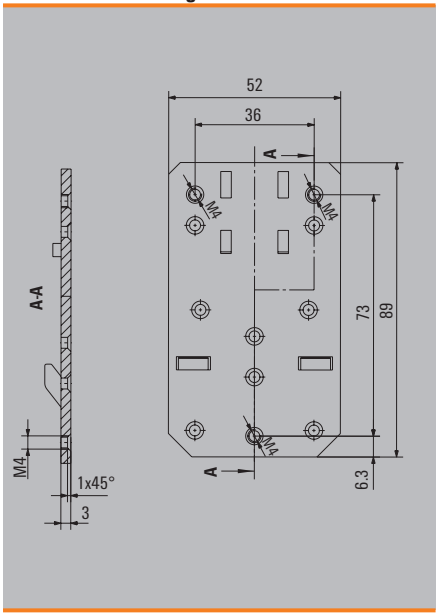
Mounting hood	
	Empty
Note	

SAI-4/6/8-MH LEER — 4-pole

Type	Qty.	Order No.
SAI-4/6/8-MH LEER	1	1783460000

Type	Qty.	Order No.
SAI-TS35 MF	1	1917400000

Dimensioned drawing



SAI-M8

Weidmüller offers two different series for the M8 range. Both of these series offer key advantages: while one is optimised for size, the other has a patented shape and protected design that make it easy to handle. The SAI M8 product line is available with up to 12 plug in slots (as a fixed-cable version) and with up to 10 plug-in slots (as a pluggable version). The housings can be screwed on from the side or from the top which makes them more versatile. They are durable and well-sealed with a sturdy, fully encapsulated construction.

These single row distributors are easy to handle; their compact shape makes them one of the smallest product solutions available on the market. The hooded distributor is a favourite from the line or ergonomic distributors (also nicknamed the hedgehog distributor). The cable outlet is customisable and can exit from the top or from the back. These distributors are also fully encapsulated.





Easily accessible

The side-mounted M8 connector ensures very convenient handling.



Directly on the PCB

Custom versions are also available. This is the PCB connection module.



Space-saving

The line version has a very small size.

Overview

Fixed cable version



Hood version



M23 version



Compact dimensions, readily accessible M8 connections, eye-catching design

The unconventional design of this generation of SAI M8 distributors catches the eye immediately. Their shape is helpful because in this patented design the sockets are no longer arranged in simple rows. Instead, some are on 45° bevelled surfaces. That considerably improves the accessibility of the screw connections for the sensor and actuator cables. Ease of use, compact dimensions and the eye catching design are the obvious advantages of this M8 generation.

The following variations are available:

- SAI M8 distributor with removable connection hood; the bus cable can be connected either vertically or horizontally
- SAI M8 distributor with permanently attached, pre-assembled bus cable, 5 or 10 m long; this version is particularly slim and is therefore ideal for mounting in confined spaces
- SAI M8 distributor with metal plated M23 thread

SAI-M8-Line

M8 distributor with M12 outlet



M8 distributor line / fixed-cable version



M8 distributor with solder pins



Extra-narrow M8 distributor for confined spaces

Single-row M8 distributors are the smallest sensor-actuator modules currently available with this thread size and it is precisely their size that is a decisive factor for applications and this form has become very popular. It is important to maintain the widest possible range of options. The SAI-M8-Line products can provide many interesting solutions:

- 4 and 6 channel modules with 8-pole M12 bus connection
- 8 and 10 channel modules with 12-pole bus connection
- 4, 10 and 12 channel distributors with fixed cable connection, the 4 and 8 channel modules also with 4 poles

It is important to note that the distributors can be labelled with the same markers as the Weidmüller 5 mm modular terminals. Therefore, no new tags have to be introduced. The modules can also be mounted sideways and are completely encapsulated.

Consequently, Weidmüller SAI distributors represent stability, robustness, flexibility and compactness - all in a single unit.

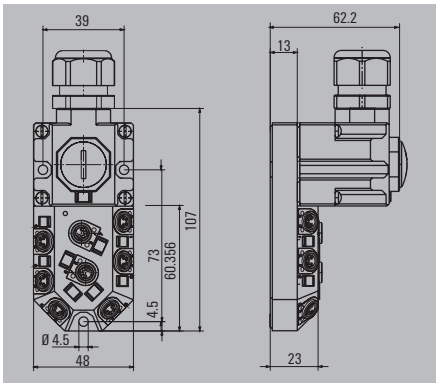
PCB version of a complete SAI distributor

During the design of PCBs, it is often necessary to plug in different external data lines. There are a variety of connectors available for this purpose. For machine construction, the M8 and M12 connectors have become established as the standard solutions for sensor and actuator wiring. When attempting to mount these PCB-type connectors to the PCB, there is a significant risk that they will not be firmly attached to the board. Now, the SL version of the SAI distributor series solves this problem. The distributor can be completely mounted onto a PCB. It features soldering pins for the electrical connection to the PCB. The distributor itself should be slightly raised up during assembly by means of washers. This provides some clearance under the box. Naturally, the power supply channels are bridged in the distributor. This saves space on the PCB since there is no need for holes on any assembly surface. Thus the reverse side can be used for other purposes.

Hooded/fixed cable version

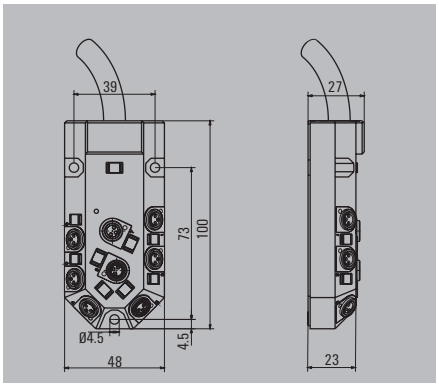
SAI-4/8-M





SAI-4/8-F





Ordering data

SAI-4/8-M		M8
Type	**Qty.**	**Order No.**
SAI-4-M 3P M8	1	**1784680000**
SAI-8-M 3P M8	1	**1784670000**
SAI-4-M 4P M8	1	**1784700000**
SAI-8-M 4P M8	1	**1784690000**
Other versions on request		

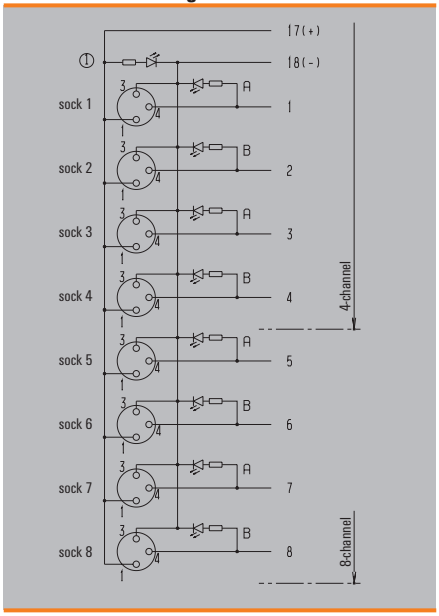
		M8
Type	**Qty.**	**Order No.**
SAI-4-F 3P M8 PUR 5M	1	**1784640000**
SAI-8-F 3P M8 PUR 5M	1	**1784620000**
SAI-4-F 3P M8 PUR 10M	1	**1784630000**
SAI-8-F 3P M8 PUR 10M	1	**1784610000**
SAI-4-F 4P M8 PUR 5M	1	**1784600000**
SAI-8-F 4P M8 PUR 5M	1	**1784580000**
SAI-4-F 4P M8 PUR 10M	1	**1784590000**
SAI-8-F 4P M8 PUR 10M	1	**1784570000**
Other versions on request		

3-pole	
Cable length 5 m (with fixed cable version)	4 plug-in stations
	8 plug-in stations
Cable length 10 m (with fixed cable version)	4 plug-in stations
	8 plug-in stations
4-pole	
Cable length 5 m (with fixed cable version)	4 plug-in stations
	8 plug-in stations
Cable length 10 m (with fixed cable version)	4 plug-in stations
	8 plug-in stations
Note	

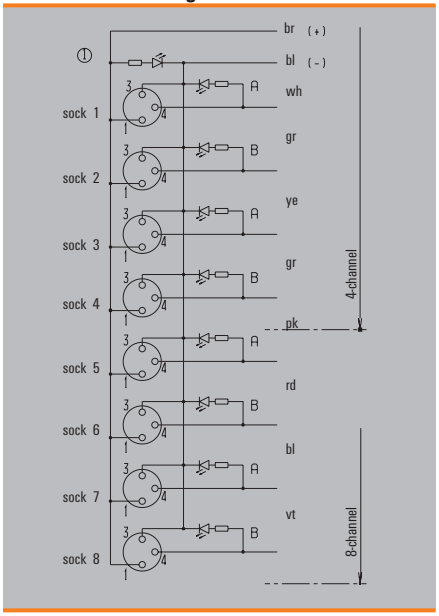
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1 mm²
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



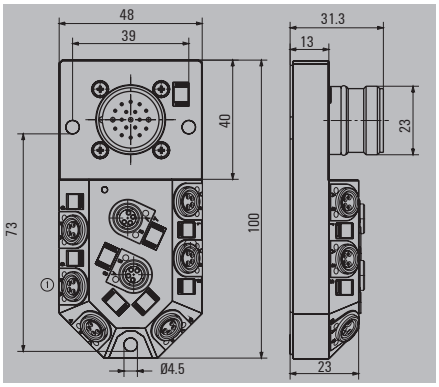
Dimensioned drawing



with M23/M16 group outlet

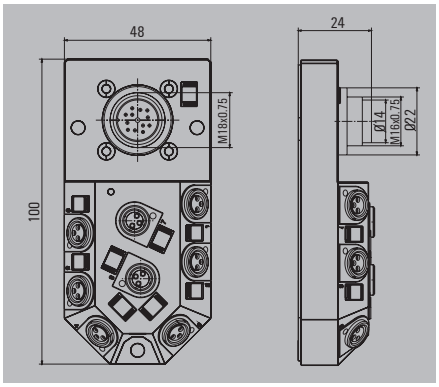
SAI-4/8-M23





SAI-8-M16





Ordering data

3-pole		
	8 plug-in stations	
4-pole		
	4 plug-in stations	
	8 plug-in stations	
Note		

SAI-4/8-M23

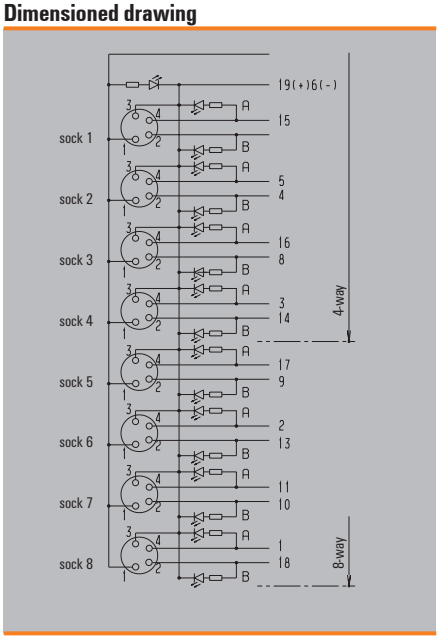
Type	Qty.	M23 Order No.
SAI-4-M23 4P M8	1	1784660000
SAI-8-M23 4P M8	1	1784650000
Other versions on request		

Type	Qty.	M16 Order No.
SAI-8-M16 3P M8	1	1795900000
Other versions on request		

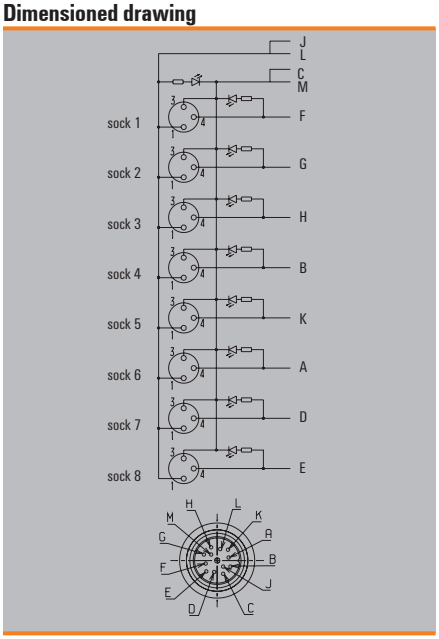
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



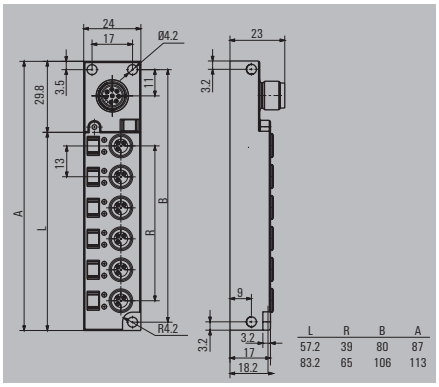
Dimensioned drawing



Line
with M12 group outlet

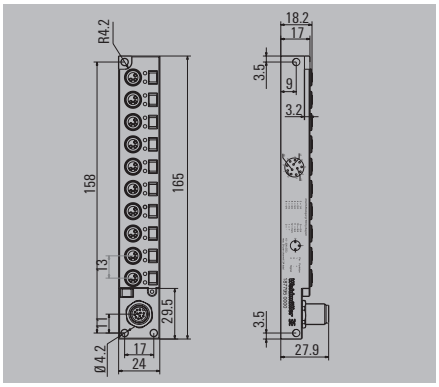
SAI-4/6-S





SAI-5/8-S





Ordering data

3-pole		
4 plug-in stations		
6 plug-in slots		
8 plug-in stations		
10 plug-in stations		
3-pole without LED		
4 plug-in stations		
6 plug-in slots		
8 plug-in stations		
Note		

SAI-4/6-S

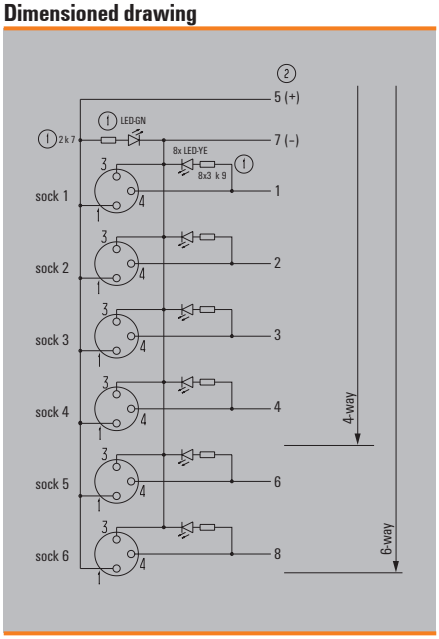
Type	Qty.	M12 Order No.
SAI-4-S 3P M8 L	1	1828740000
SAI-6-S 3P M8 L	1	1828730000
SAI-4-S 3P M8 L OL	1	1051760000
SAI-6-S 3P M8 L OL	1	1932380000
Other versions on request		

Type	Qty.	M12 Order No.
SAI-8-S12 3P M8 L	1	1871680000
SAI-10-S12 3P M8 L	1	1877950000
SAI-8-S12 3P M8 L OL	1	1116330000

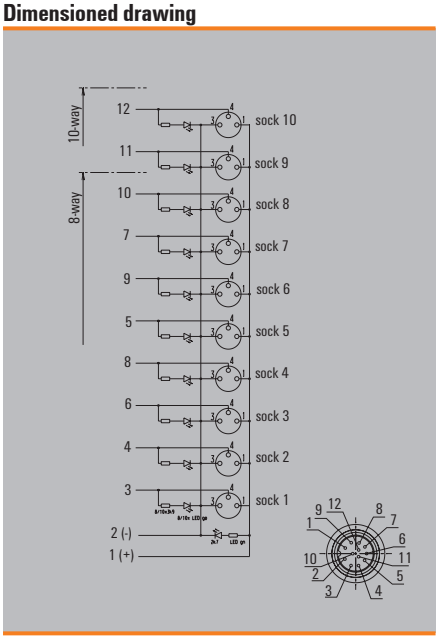
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



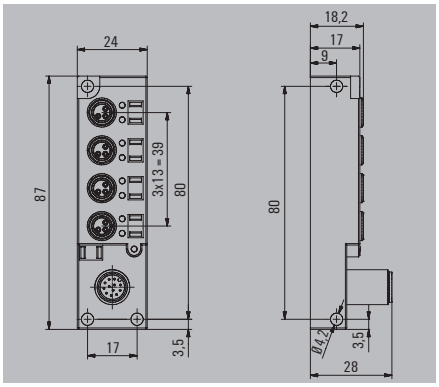
Dimensioned drawing



Line
1:1
with M12 group outlet

SAI-4-S12 M8 L 1:1





Ordering data

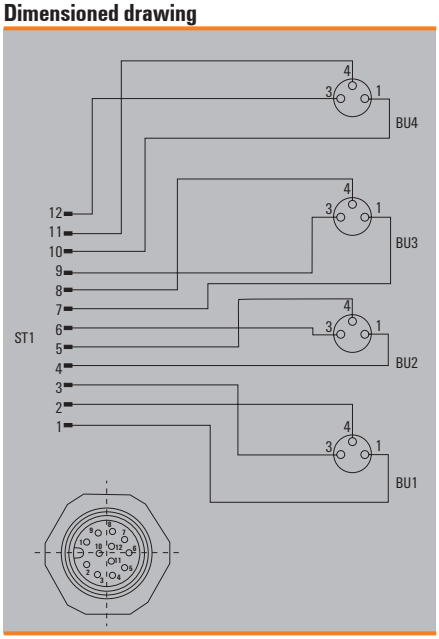
SAI-4-S12 M8 L 1:1		M12
Type	**Qty.**	**Order No.**
SAI-4-S12 M8 L 1:1	2	**1449400000**

3-pole	
	4 plug-in stations
Note	

Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

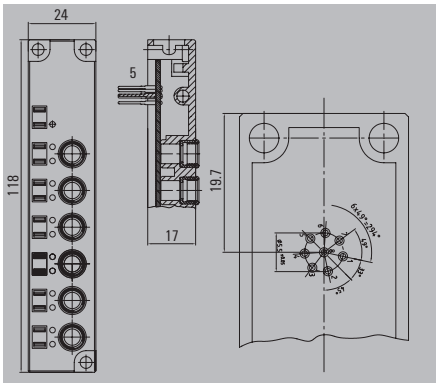
Dimensioned drawing



Line
Print version

SAI-6-S M8 L SL





Ordering data

3-pole	
	6 plug-in slots
Note	

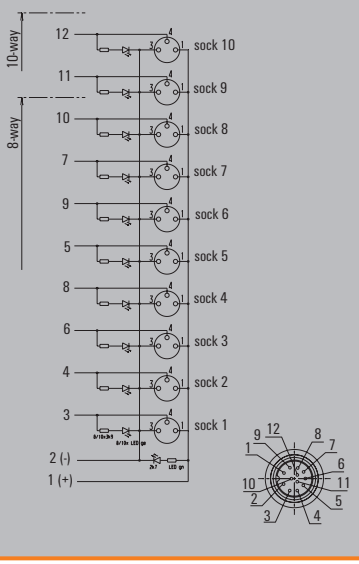
SAI-6-S M8 L SL — 3-pole

Type	Qty.	Order No.
SAI-6-S 3P M8 L SL	1	1057720000
Other versions on request		

Technical data

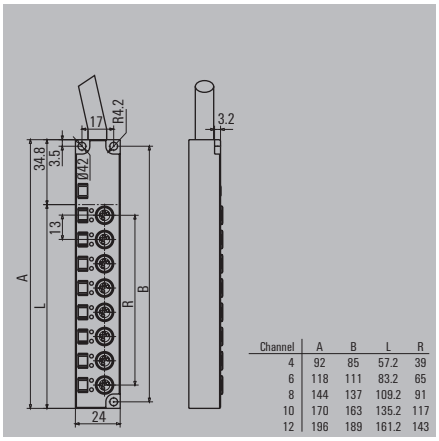
Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing



Line / Fixed cable version





Channel	A	B	L	R
4	92	85	57.2	39
6	118	111	83.2	65
8	144	137	109.2	91
10	170	163	135.2	117
12	196	189	161.2	143

Ordering data

SAI-4/6/8/10/12-L — 3-pole

Cable length 5 m (with fixed cable version)	Qty.	Order No.
4 plug-in stations	1	1828720000
6 plug-in slots	1	1828700000
8 plug-in stations	1	1828680000
10 plug-in stations	1	1828660000
12 plug-in stations	1	1828640000
Cable length 10 m (with fixed cable version)		
4 plug-in stations	1	1828710000
6 plug-in slots	1	1828690000
8 plug-in stations	1	1828670000
10 plug-in stations	1	1828650000
12 plug-in stations	1	1828630000

Note

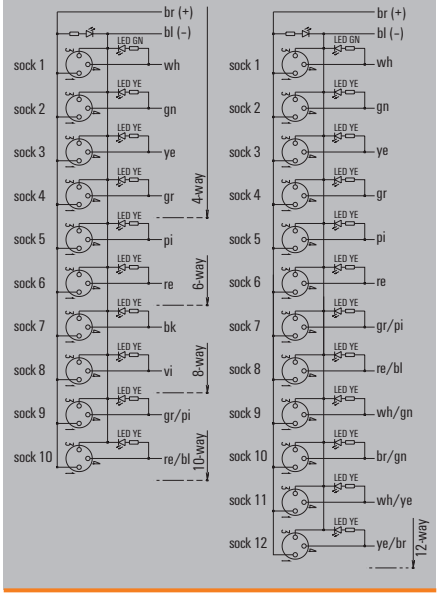
SAI-4/6/8/10/12-L — 4-pole

Cable length 5 m (with fixed cable version)	Qty.	Order No.
4 plug-in stations	1	1849680000
6 plug-in slots	1	1849700000
8 plug-in stations	1	1828620000
Cable length 10 m (with fixed cable version)		
4 plug-in stations	1	1849690000
6 plug-in slots	1	1849670000
8 plug-in stations	1	1828610000

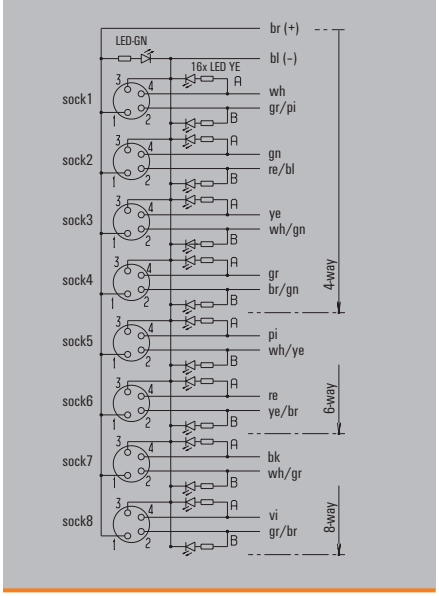
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



Wiring diagram



SAI Ex i distributor for Ex i zone 1

Hooded version with 4 plug-in stations



Hooded version with 8 plug-in stations



SAI distributor for Ex i zone 1

Available for the first time: passive SAI distributors with M12 connection technology in IP 68 ingress protection classification for Ex i hazardous area applications.

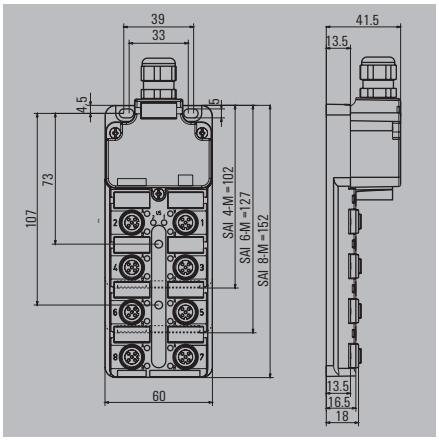
The SAI Ex i distributor is certified for zone 1 of potentially explosive areas, even for G and D zones.

SAI Ex i distributors are available with four or eight connections for simple connection of NAMUR sensors. This makes distribution boxes with certification a thing of the past. These modules are suitable for process engineering, but also for “standard” machine applications. The versions are available with or without yellow LEDs.

The distributors are provided with a removable connection hood. This detail also helps to reduce costs because only the defective bus cable needs to be replaced and not the entire distributor.

Hood version





Ordering data

Complete modules	
	4 plug-in stations
	6 plug-in stations
	8 plug-in stations
Without initiator LED	4 plug-in stations
Without initiator LED	8 plug-in stations
Note	

SAI-4/8-M Ex i — 4-pole

Type	Qty.	Order No.
SAI-4-M 4P Exi Z1 IL	1	**1868360000**
SAI-8-M 4P Exi Z1 IL	1	**1868370000**
SAI-4-M 4P Exi Z1 OL	1	**1868350000**
SAI-8-M 4P Exi Z1 OL	1	**1894380000**

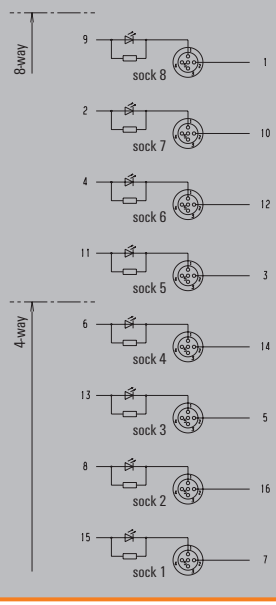
SAI-4/8-M Ex ia — 5-pole

Type	Qty.	Order No.
SAI-4-M 5P M12 Ex ia	1	**1896050000**
SAI-6-M 5P M12 Ex ia	1	**1896070000**
SAI-8-M 5P M12 Ex ia	1	**1896090000**

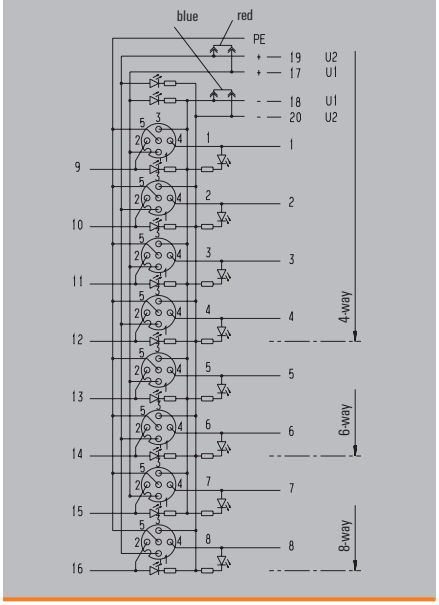
Technical data

Operating voltage	10...30 V
Current of continuous busbars	100 mA
Max. current-carrying capacity per slot	100 mA
Total current	2.3 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...40 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.1...1.5 mm²
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram



Distributor with integrated logic

Distributor with integrated logic	Introduction	F.2
	Distributor with integrated logic	F.4
	Terminator resistor - Bridge	F.6

Signal distribution via AND or OR circuit

SAI distributor with preprocessing logic circuit

In mechanical engineering, many sensors have to be wired and combined on a regular basis. For this, it is usually necessary to carry out the complete wiring to the PLC. SAI logic modules allow logical connections to be made to the distributors and, thus, save installation time.

Our SAI distributors with logic module contain logic circuits in groups of four. Four signals at a time are combined either via an AND or an OR circuit. A four-pin M12 connector transmits the data. In this way, only one input for a maximum of four sensors is required on the PLC.

Your special advantages

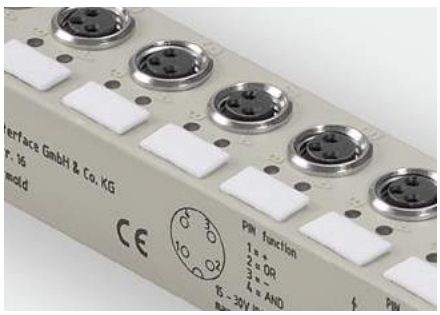
- Very small design
- Combination of four signals to an AND or OR circuit
- Connection via a four-pin M12 connector

Available in two sizes
The modules are available with either four-way or eight-way M8 distributors.

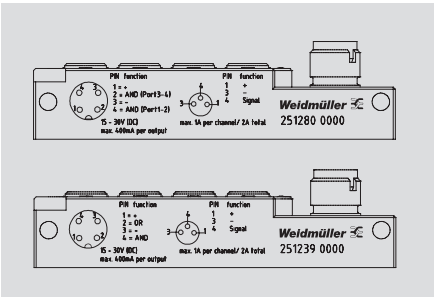




Small construction
The use of small M8 connectors enables a particularly space-saving design. The same applies to the four-pin M12 common plug for feedback of the collected signals.



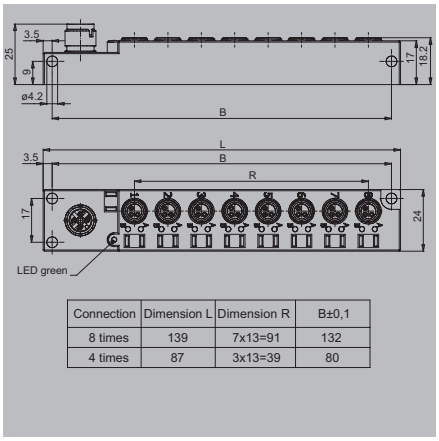
Two logic functions available
M8 distributors are optionally available with AND circuit or alternatively with an AND and an OR circuit.



Distributor with integrated logic

And-Conjunction with M12 outlet





Connection	Dimension L	Dimension R	B±0,1
8 times	139	7x13=91	132
4 times	87	3x13=39	80

Ordering data

Complete modules			
		SAI-4-S	3-pole
		Type	Qty.	Order No.
4 plug-in stations		SAI-4-S-3P-M8L-M12-2AND	1	2512800000
8 plug-in stations				
Note				

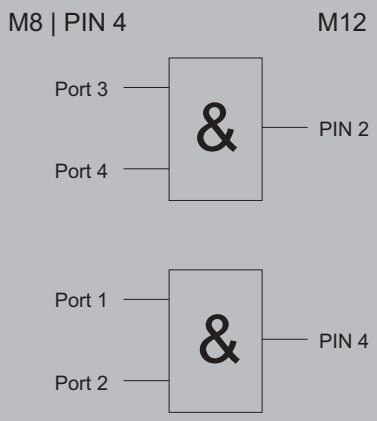
		SAI-8-S	3-pole
		Type	Qty.	Order No.
		SAI-8-S-3P-M8L-M12-2AND	1	2512820000

F

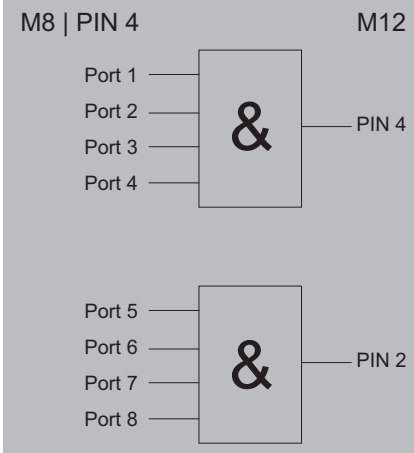
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram

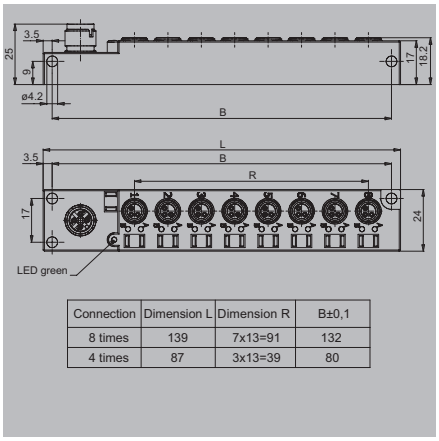


Wiring diagram



And-/Or-Conjunction with M12 outlet





Connection	Dimension L	Dimension R	B±0,1
8 times	139	7x13=91	132
4 times	87	3x13=39	80

Ordering data

Complete modules

4 plug-in stations	
8 plug-in stations	

Note

SAI-4-S — **3-pole**

Type	Qty.	Order No.
SAI-4-S-3P-M8L-M12-LOG	1	**2512390000**

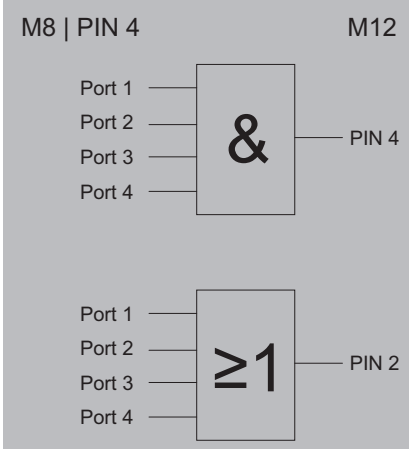
SAI-8-S — **3-pole**

Type	Qty.	Order No.
SAI-8-S-3P-M8L-M12-LOG	1	**2512810000**

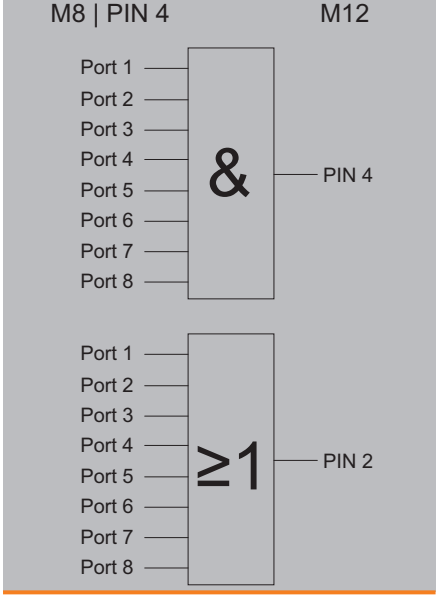
Technical data

Operating voltage	15...30 V
Current of continuous busbars	
Max. current-carrying capacity per slot	
Total current	2 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	Nickel-plated CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram



Distributor with integrated logic

Terminator resistor - Bridge

M8

Bridge between 1+4





Ordering data

Type	Qty.	Order No.
SAIEND 1/4 M8G 3P	1	**2662450000**
Other versions on request		

Weidmüller Industry Light

Weidmüller Industry Light	Introduction	G.2
	Weidmüller Industry Light	G.4
	Weidmüller Industry Light accessories	G.16

Optimum lighting for cabinet and field

Weidmüller Industry Light (WIL) – a solution for all requirements

The control cabinet is often a working area that is poorly lit. There is a demand here for a space-saving, bright yet affordable solution. The WIL all-rounder was developed in close cooperation with the industry and is the answer to its specialist requirements.

The compact LED light brightens the interior of the control cabinet with a wide cone of light or is mounted directly in the field. The mounting dimensions perfectly fit the requirements of a standard control cabinet. In addition, the high IP67 protection class and the robust enclosure make the WIL particularly suitable for industrial use.





Easy to connect

The pre-assembled M12 plug-in connector and 30-cm cable a plug-and-play connection can be set up for the system. No strands need to be connected separately, which makes installation considerably easier.

Protected

Thanks to the complete casting and M12 connection system, the WIL is watertight and dust-proof and can be used directly in the machine room.

Wide range thanks to broad beam angle

Three rows of LEDs arranged offset to one another generate a wide, trapezoidal beam angle. It produces a wide lit area without having to turn the light in a specific direction.

Direct and easy to mount

Built-in mounting holes allow simple direct mounting. There are no additional mounting clips, so the installation height is also low.

Concealed integration possible thanks to flat design

The WIL is easy to „conceal" as it is just 8 mm in height. A folded edge on the control cabinet door may be sufficient to ensure the light is no longer visible from the side.

Perfect fit for the control cabinet

The 225-mm distance between mounting holes makes installation in standard control cabinet models quick and simple.

High-performance and economical

The WIL is characterised by its high luminosity and pleasant light colour which is similar to daylight. The solution is operated with 24 V DC and can be connected directly to a PLC output due to its low 420 mA consumption.

Robust and therefore durable

The enclosure made of a hard-anodised aluminium continuous cast profile with nickel-plated zinc die cast caps makes the WIL extremely robust. The area providing the lighting is therefore completely cast – without the need for an airtight area with viewing glass that can break.



WIL – Weidmüller Industry Light

WIL cable lenghts variants
without magnet
without M12

Black cable



Orange cable



Ordering data

	Type	Qty.	Order No.
1.5 m	WIL-STANDARD-1.5-SCREW-SW-WHI	1	**2527880000**
3.0 m	WIL-STANDARD-3.0-SCREW-SW-WHI	1	**2527890000**
5.0 m	WIL-STANDARD-5.0-SCREW-SW-WHI	1	**2527900000**
10.0 m	WIL-STANDARD-10-SCREW-SW-WHI	1	**2527910000**
Note			

Type	Qty.	Order No.
WIL-STANDARD-1.5-SCREW-OR-WHI	1	**2527960000**
WIL-STANDARD-3.0-SCREW-OR-WHI	1	**2527970000**
WIL-STANDARD-5.0-SCREW-OR-WHI	1	**2527980000**
WIL-STANDARD-10-SCREW-OR-WHI	1	**2527990000**

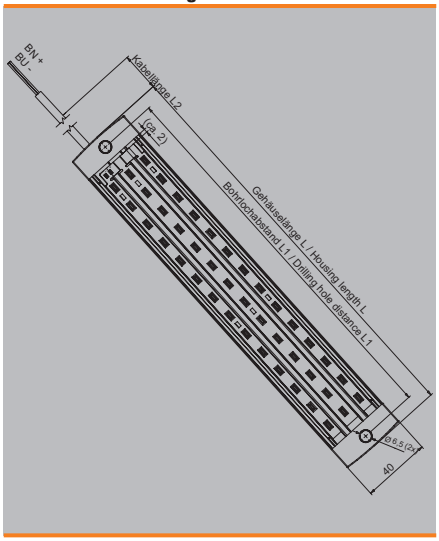
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	0,42 A
Power	8,5 W
Light current	711 lm
Illumination level	245 lux
Wiring	Brown +, Blue -
Light colour (CCT)	6500K, White
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	240 mm
Height	8 mm
Note	

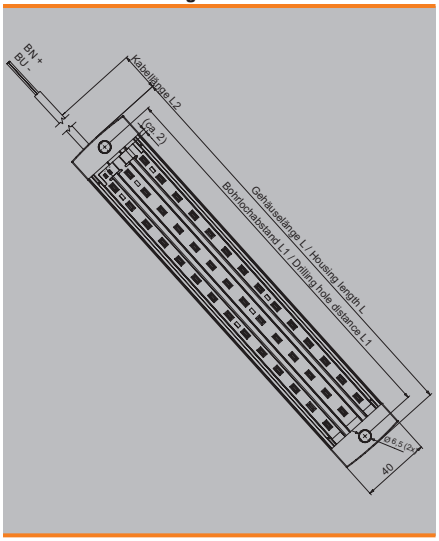
24 V DC
0,42 A
8,5 W
711 lm
245 lux
Brown +, Blue -
6500K, White
IP67
IK05
40 mm
240 mm
8 mm

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL cable lenghts variants
with magnet
without M12

Black cable



Orange cable



Ordering data

	Type	Qty.	Order No.
1.5 m	WIL-STANDARD-1.5-MAG-SW-WHI	1	**2527920000**
3.0 m	WIL-STANDARD-3.0-MAG-SW-WHI	1	**2527930000**
5.0 m	WIL-STANDARD-5.0-MAG-SW-WHI	1	**2527940000**
10.0 m	WIL-STANDARD-10-MAG-SW-WHI	1	**2527950000**
Note			

Type	Qty.	Order No.
WIL-STANDARD-1.5-MAG-OR-WHI	1	**2528000000**
WIL-STANDARD-3.0-MAG-OR-WHI	1	**2528010000**
WIL-STANDARD-5.0-MAG-OR-WHI	1	**2528020000**
WIL-STANDARD-10-MAG-OR-WHI	1	**2528030000**

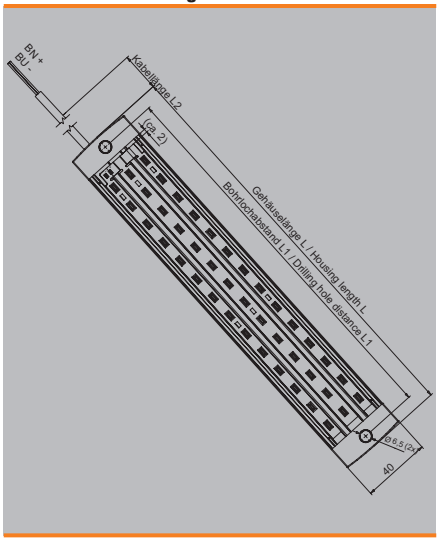
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	0,42 A
Power	8,5 W
Light current	711 lm
Illumination level	245 lux
Wiring	Brown +, Blue -
Light colour (CCT)	6500K, White
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	240 mm
Height	9.5 mm
Note	

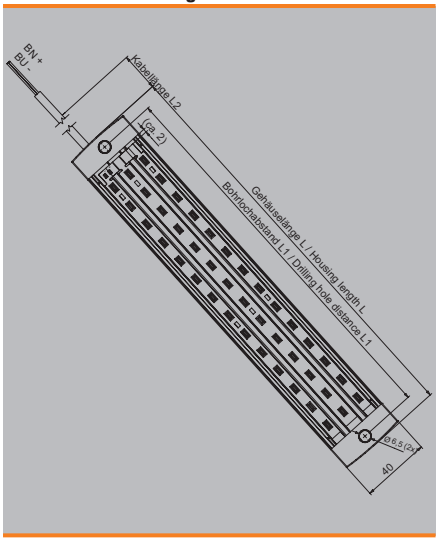
24 V DC	
0,42 A	
8,5 W	
711 lm	
245 lux	
Brown +, Blue -	
6500K, White	
IP67	
IK05	
40 mm	
240 mm	
9.5 mm	

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL housing lenghts variants without magnet

Black cable

Housing length 145 mm



Black cable

Housing length 350 mm



Ordering data

	Type	Qty.	Order No.
with M12, 0.3 m	WIL-145-W-M12G-0.3U-S	1	2535770000
without M12, 5.0 m	WIL-145-W-XXXX-5.0U-S	1	2535800000

	Type	Qty.	Order No.
with M12, 0.3 m	WIL-350-W-M12G-0.3U-S	1	2535810000
without M12, 5.0 m	WIL-350-W-XXXX-5.0U-S	1	2535820000

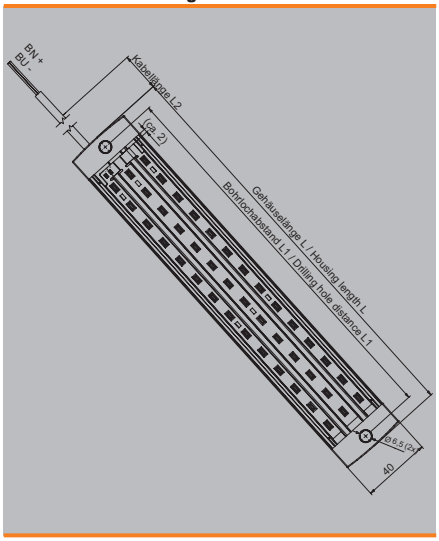
Note

Technical data

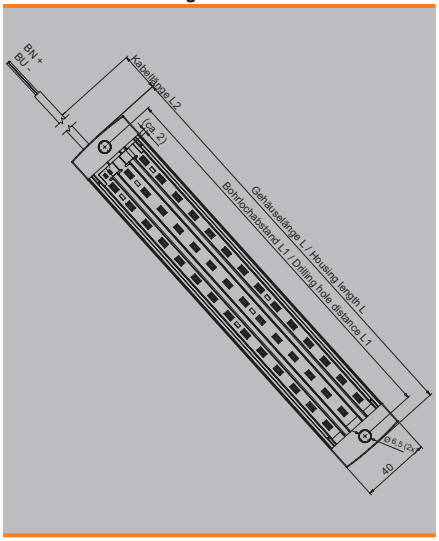
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,20 A	0,55 A
Power	5.04 W	13 W
Light current	340 lm	958 lm
Illumination level	118 lux	330 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	6500K, White	6500K, White
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	145 mm	350 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL lengths variants without magnet

Black cable

Housing length 450 mm



Black cable

Housing length 555 mm



Ordering data

	Type	Qty.	Order No.
with M12, 0.3 m	WIL-450-W-M12G-0.3U-S	1	2535830000
without M12, 5.0 m	WIL-450-W-XXXX-5.0U-S	1	2535840000
Note			

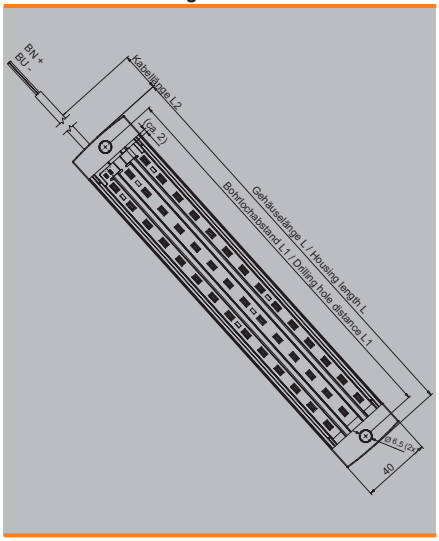
	Type	Qty.	Order No.
with M12, 0.3 m	WIL-555-W-M12G-0.3U-S	1	2535850000
without M12, 5.0 m	WIL-555-W-XXXX-5.0U-S	1	2535860000
Note			

Technical data

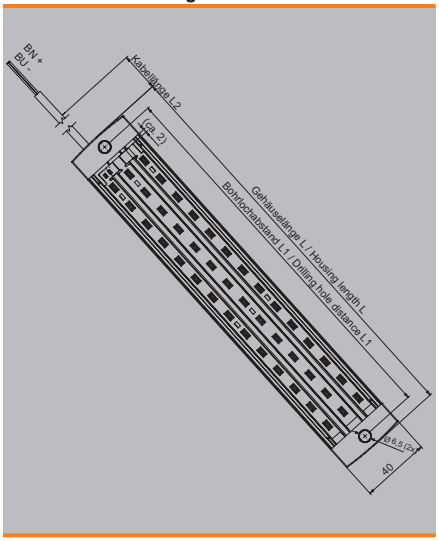
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,65 A	0,80 A
Power	16.5 W	20.5 W
Light current	1260 lm	1579 lm
Illumination level	435 lux	544 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	6500K, White	6500K, White
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	450 mm	555 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL lengths variants without magnet

Black cable

Housing length 655 mm



Black cable

Housing length 765 mm



Ordering data

	Type	Qty.	Order No.
with M12, 0.3 m	WIL-655-W-M12G-0.3U-S	1	2535870000
without M12, 5.0 m	WIL-655-W-XXXX-5.0U-S	1	2535880000
Note			

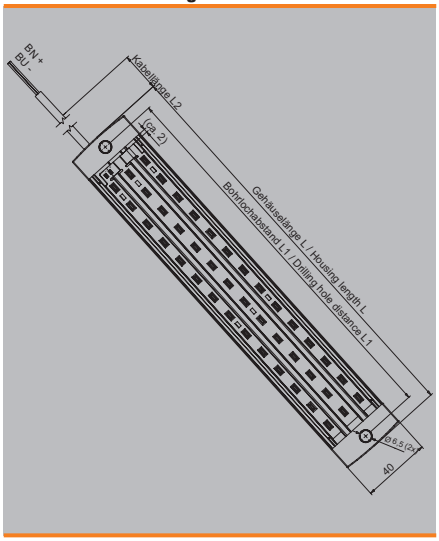
	Type	Qty.	Order No.
with M12, 0.3 m	WIL-765-W-M12G-0.3U-S	1	2535890000
without M12, 5.0 m	WIL-765-W-XXXX-5.0U-S	1	2535900000
Note			

Technical data

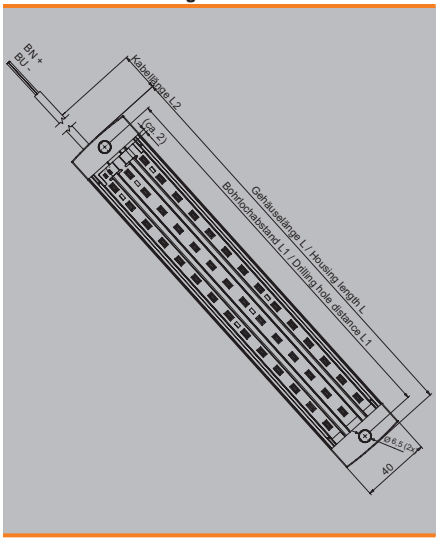
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,90 A	1,00 A
Power	25 W	29 W
Light current	1933 lm	2177 lm
Illumination level	666 lux	749 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	6500K, White	6500K, White
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	655 mm	765 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL lengths variants without magnet

Black cable

Housing length 860 mm



Ordering data

with M12, 0.3 m	
without M12, 5.0 m	
Note	

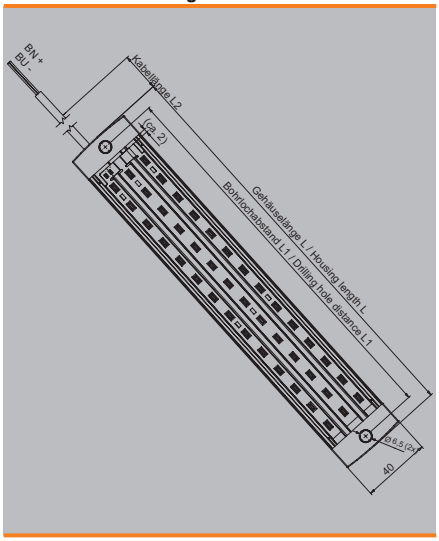
Type	Qty.	Order No.
WIL-860-W-M12G-0.3U-S	1	**2535910000**
WIL-860-W-XXXX-5.0U-S	1	**2535920000**

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	1,10 A
Power	32.5 W
Light current	2473 lm
Illumination level	844 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	6500K, White
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	860 mm
Height	8 mm
Note	

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



WIL colour variants without magnet with M12

LED white

Housing length 240 mm



LED Blue

Housing length 240 mm



Ordering data

	Type	Qty.	Order No.
1x M12, 0.3 m, black cable	WIL-STANDARD-0.3-SCREW-SW-WHI	1	2436210000
2x M12, 0.3 m, black cable	WIL-240-W-M12GM12G-0.3U-S	1	2576960000
Note			

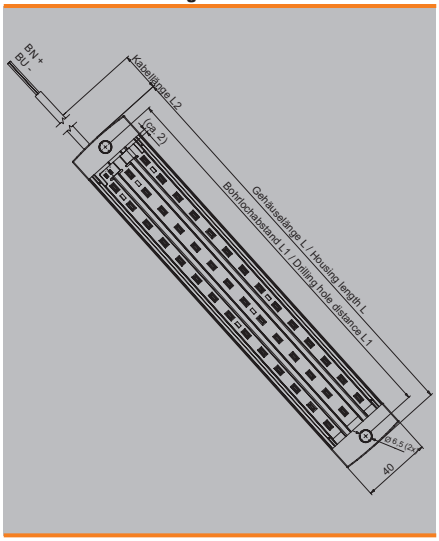
	Type	Qty.	Order No.
	WIL-STANDARD-0.3-SCREW-SW-BLU	1	2436350000
	WIL-240-B-M12GM12G-0.3U-S	1	2576970000

Technical data

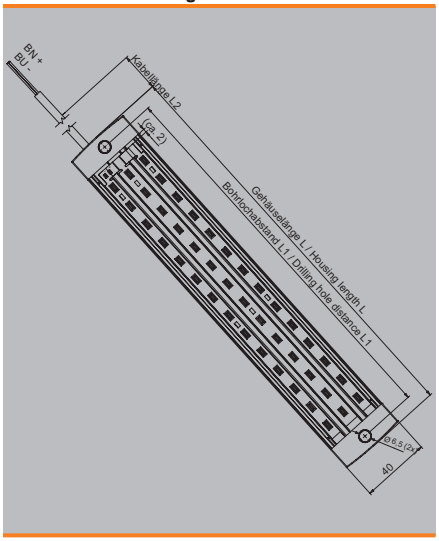
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,36 A	0,36 A
Power	8,5 W	8,5 W
Light current	711 lm	98 lm
Illumination level	245 lux	34 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)	Pin 4 (Strand: black) control blue LED, Pin 3 (Strand: blue)
Light colour (CCT)	6500K, White	Blue
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	240 mm	240 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL colour variants
without magnet
with M12

LED Red

Housing length 240 mm



LED Red, Yellow, Green

Housing length 240 mm



Ordering data

	Type	Qty.	Order No.
1x M12, 0.3 m, black cable	WIL-STANDARD-0.3-SCREW-SW-RED	1	2436340000
2x M12, 0.3 m, black cable	WIL-240-R-M12GM12G-0.3U-S	1	2576980000
Note			

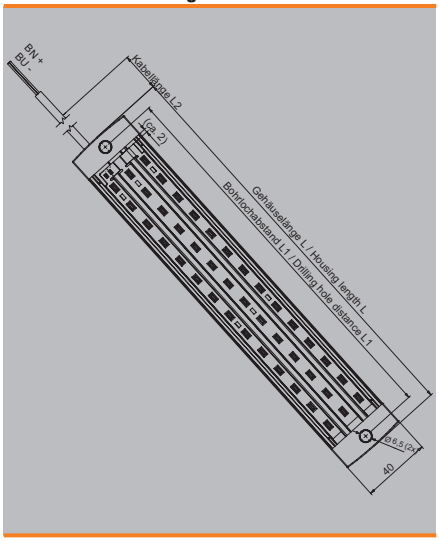
	Type	Qty.	Order No.
	WIL-240-RYG-M12G-0.3U-S	1	2625240000

Technical data

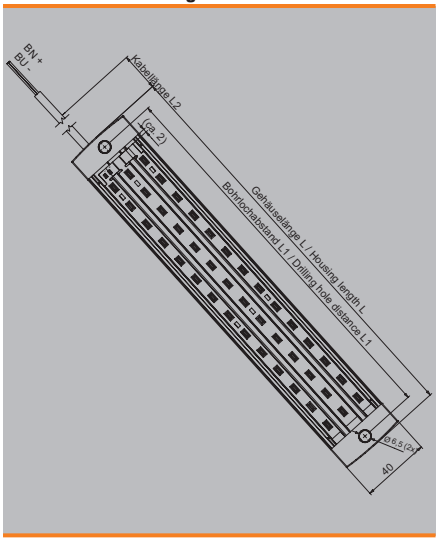
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,36 A	0,36 A
Power	8,5 W	8,5 W
Light current	208 lm	
Illumination level	71 lux	
Wiring	Pin 4 (Strand: black) control red LED, Pin 3 (Strand: blue)	Pin 1 (Strand: brown) control red LED, Pin 2 (Strand: white) control yellow LED, Pin 3 (Strand: blue), Pin 4 (Strand: black) control green LED
Light colour (CCT)	Red	Red, Yellow, Green
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	240 mm	240 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL colour variants without magnet with M12

RGBW

Housing length 240 mm





Ordering data

	0.3 m, black cable
Note	

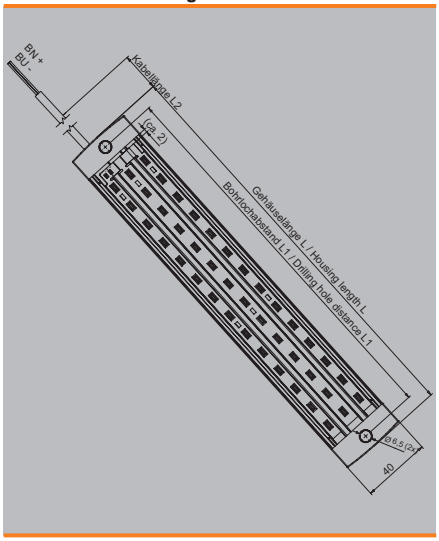
Type	Qty.	Order No.
WIL-240-RGBW-M12G-0.3U-S	1	**2635090000**

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	0,36 A
Power	8,5 W
Light current	
Illumination level	
Wiring	Pin 1 (Strand: brown) control red LED, Pin 2 (Strand: white) control green LED, Pin 3 (Strand: blue), Pin 4 (Strand: black) control blue LED, Pin 5 (Strand: grey) control white LED
Light colour (CCT)	Blue, White, Red, Green
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	240 mm
Height	8 mm
Note	Maximum allowed total current: 1 A

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



WIL different white colours
without magnet
mit M12

2700 K warm white

Housing length 240 mm



4000 K neutral white

Housing length 240 mm



Ordering data

	0.3 m, black cable		
Note			

Type	Qty.	Order No.
WIL-240-WW27-M12G-0.3U-S	1	**2633830000**

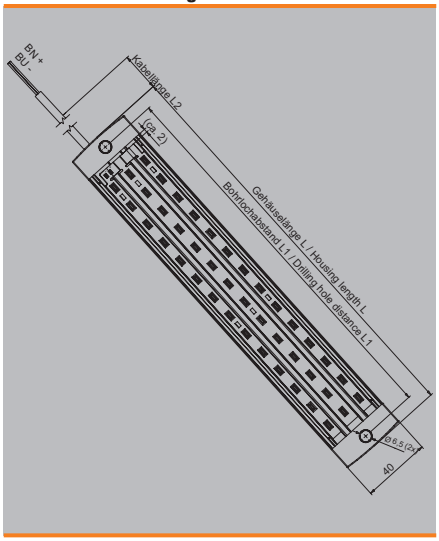
Type	Qty.	Order No.
WIL-240-WW40-M12G-0.3U-S	1	**2617810000**

Technical data

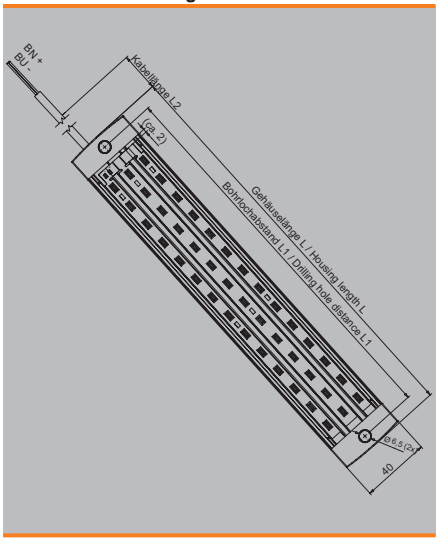
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	0,36 A	0,36 A
Power	8,5 W	8,5 W
Light current	600 lm	630 lm
Illumination level	210 lux	210 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	2700K	4000K
Protection degree	IP67	IP67
Impact resistance	IK05	IK05
Depth	40 mm	40 mm
Width	240 mm	240 mm
Height	8 mm	8 mm
Note		

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



Dimensioned drawing



WIL different white colours
without magnet
mit M12

5700 K cold white

Housing length 240 mm



Ordering data

	0.3 m, black cable
Note	

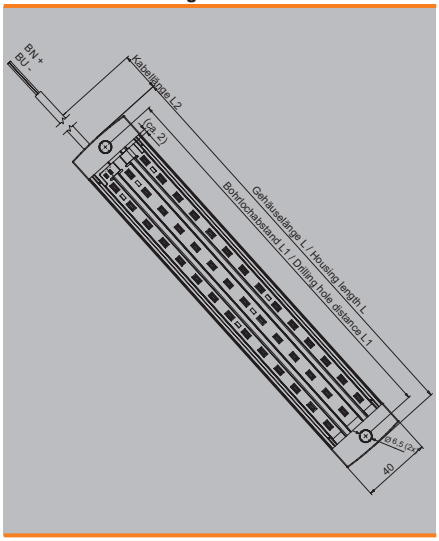
Type	Qty.	Order No.
WIL-240-WW57-M12G-0.3U-S	1	**2614400000**

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	0,36 A
Power	8,5 W
Light current	660 lm
Illumination level	210 lux
Wiring	Pin 4 (Strand: black) control white LED, Pin 3 (Strand: blue)
Light colour (CCT)	5700K
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	240 mm
Height	8 mm
Note	

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



WIL with 12 V electrical system plug
with magnet
with M12

6500 K with on-board connector



Ordering data

	5.0 m, black cable
Note	

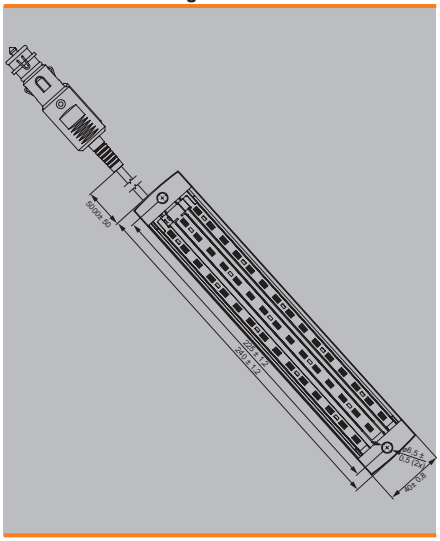
Type	Qty.	Order No.
WIL-240-W-Z12V-5.0U-S-M	1	**2548620000**

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	12 V DC
Rated current	0,70 A
Power	8,5 W
Light current	711 lm
Illumination level	245 lux
Wiring	Blue -, Brown +
Light colour (CCT)	6500K, White
Protection degree	IP67
Impact resistance	IK05
Depth	40 mm
Width	240 mm
Height	9.5 mm
Note	

Housing Length L	Drill hole spacing L1
145 mm	130 mm
240 mm	225 mm
350 mm	335 mm
450 mm	435 mm
555 mm	540 mm
655 mm	640 mm
765 mm	750 mm
860 mm	845 mm

Dimensioned drawing



WIL accessories

Motion sensors without cable



Motion sensors with cable



Ordering data

Type	Qty.	Order No.
WIL-BM-SK	1	2537720000

Note

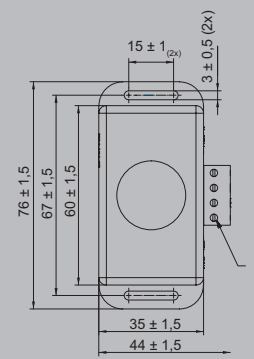
Type	Qty.	Order No.
WIL-BM-SK-M12-3.0U	1	2537700000

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	< 6.0 A
Power	
Light current	
Illumination level	
Wiring	PIN 4: + (black), PIN 3: - (blue)
Light colour (CCT)	
Protection degree	IP20
Impact resistance	
Depth	44 mm
Width	76 mm
Height	33 mm
Note	

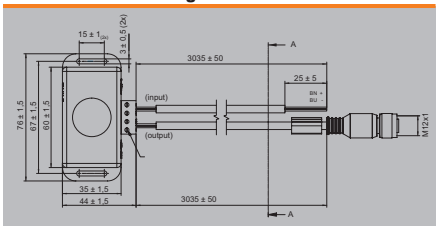
24 V DC	
< 6.0 A	
PIN 4: + (black), PIN 3: - (blue)	
IP20	
44 mm	
76 mm	
33 mm	

Dimensioned drawing



Schraubklemmenblock 4polig (4 pin terminal block):
- Schraube (screw): M2,5
- Anzugsdrehmoment (mounting torque): max 0,4 Nm
- Kabeldurchmesser (cable diameter): max 2,5 mm²

Dimensioned drawing



Schraubklemmenblock 4polig (4 pin terminal block):
- Schraube (screw): M2,5
- Anzugsdrehmoment (mounting torque): max 0,4 Nm
- Kabeldurchmesser (cable diameter): max 2,5 mm²

WIL accessories

Motion sensors with cable

JACKPAC®



Ordering data

Type	Qty.	Order No.
WIL-BM-JP-M12-3.0U	1	2537710000

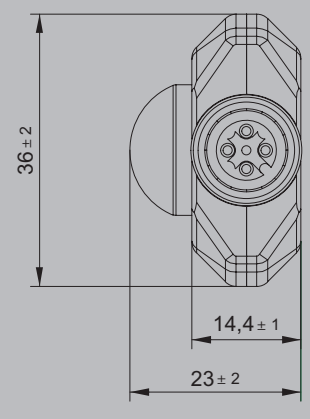
Note

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC
Rated current	< 3.0 A
Power	
Light current	
Illumination level	
Wiring	PIN 4: + (black), PIN 3: - (blue)
Light colour (CCT)	
Protection degree	IP20
Impact resistance	
Depth	36 mm
Width	51 mm
Height	23 mm

Note

Dimensioned drawing



WIL accessories

Door switch



Power supply



Ordering data

Type	Qty.	Order No.
WIL-TS-M12	1	2537730000

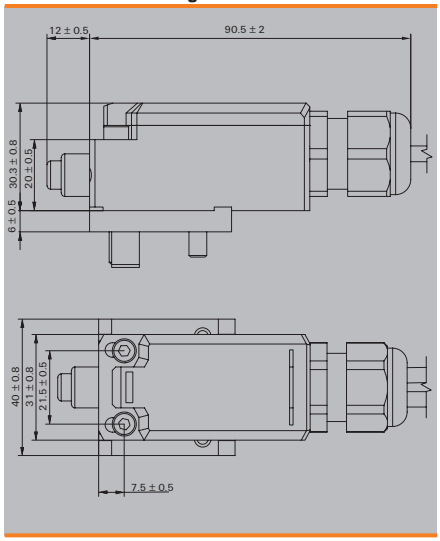
Note

Type	Qty.	Order No.
WIL-NT-STANDARD	1	2598350000

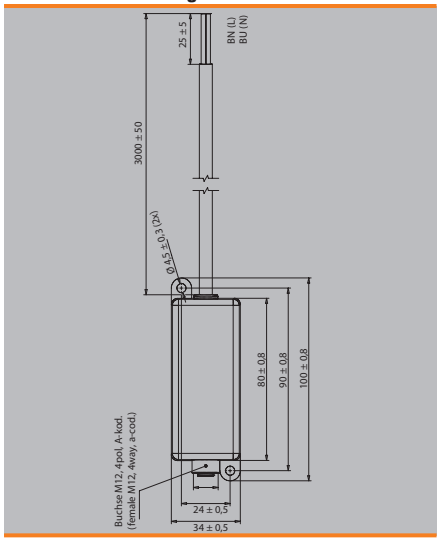
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC	24 V DC
Rated current	1.5 A	1,10 A
Power		
Light current		
Illumination level		
Wiring	PIN 4: + (black), PIN 3: - (blue)	
Light colour (CCT)		
Protection degree	IP67	IP65 when locked
Impact resistance		
Depth	40 mm	34 mm
Width	102.5 mm	100 mm
Height	36.3 mm	32 mm
Note		Only suitable for housing lengths 145 mm and 240 mm

Dimensioned drawing



Dimensioned drawing

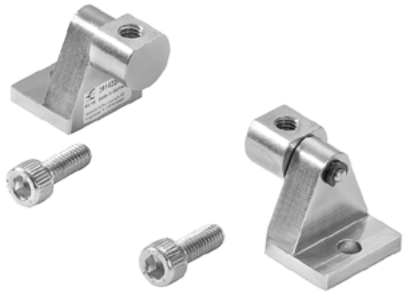


WIL accessories

Magnet



Swivelling holder



Ordering data

Type	Qty.	Order No.
WIL-MAGNET	1	2526810000

Note

Type	Qty.	Order No.
WIL-SCHWENKHALTER	1	2614220000

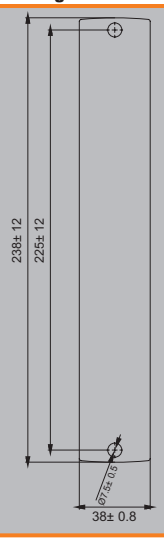
Note

Technical data

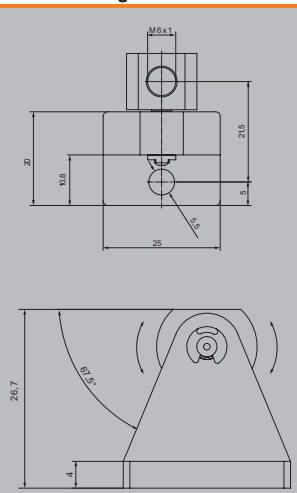
Rated voltage (acc. to VDE standard 0110 ISO Group C)		
Rated current		
Power		
Light current		
Illumination level		
Wiring		
Light colour (CCT)		
Protection degree		
Impact resistance		
Depth	38 mm	20 mm
Width	238 mm	32.5 mm
Height	1.5 mm	26.7 mm

Note

Dimensioned drawing



Dimensioned drawing



Explanation of the abbreviations of the WIL family



Figures	Meaning
WIL	family name
145	housing length 145 mm
240	housing length 240 mm
350	housing length 350 mm
450	housing length 450 mm
555	housing length 555 mm
655	housing length 655 mm
765	housing length 765 mm
860	housing length 860 mm
Standard	housing length 240 mm
W	white 6500 K
WW40	white 4000 K
WW57	white 5700 K
WW27	white 2700 K
R	Red
B	Blue
M12G	M12 connector straight
0.3U	cable length 0.3m
-S	Screw mounting
-M	Mounting additionally possible with magnet
BM	motion detection
SK	Screw terminals inside
NT-standard	Power supply for housing length 145 mm und 240 mm
JP	Jackpac housing
Z12V	Car Interface connector
Screw	Screw connection
Magnet	magnet only for 240 mm version
TS	Door switch
RYG	three colors inside: red, yellow, green
RGBW	RGBW inside (Multicolour LEDs)

JACKPAC® (IP67)

JACKPAC® (IP67)	JACKPAC® – Overview	H.2
	JACKPAC® relay	H.3
	JACKPAC® timer	H.4
	JACKPAC® signal inverter	H.5
	JACKPAC® galvanic signal separation	H.6
	JACKPAC® Cat. 6 surge protection	H.7
	JACKPAC® test	H.8
	JACKPAC® – General Data and Accessories	H.9
	Empty housing SAI JACKPAC® for custom built-in components	H.10

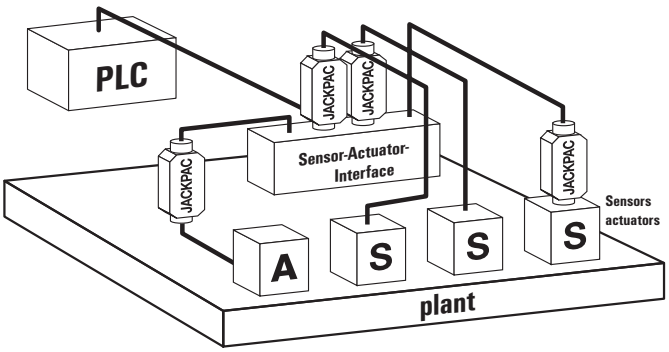
The Concept

The IP20 Solution

Until now, all signal conditioning tasks were carried out by modules designed to IP20. For their own protection, these needed to be installed in central switchgear cabinets. However, decentralised solutions that do not require large switchgear cabinets are increasingly being sought for use in modern-day industrial automation technology.
It is true that shielded signals can be fed to the machinery via powerful fieldbus systems; but in each case, however, there remains an interconnecting cable between the subdistribution boards and the sensors/actuators are susceptible to interference from surrounding operations.
As has always been the case, signals are still influenced by overvoltages and earth loops; interference pulses are superimposed on sensor signals and malfunctions can be initiated.
The result is that signal conditioning modules sealed to IP20 require terminal boxes, such as switchgear cabinets, or even cost-intensive special solutions (for example, sensor-actuator distributors with integrated signal-conditioning functions providing as many functions as possible, even when these are surplus to requirements).

The JACKPAC® Solution

By introducing **JACKPAC®**, the new M12 Signal Box with the high IP67 ingress protection, Weidmüller can now provide a modular and versatile concept that makes it possible to condition signals in an industrial environment. Requiring no additional enclosures, these modules can be installed directly on the machine, in the production plant, conveyor system or within a process.
The M12 connector, which is standardised all over the world, makes it possible to integrate the **JACKPAC®** at any point in the sensor-actuator cabling. The fixed pin assignment means it is easy to install and is protected against polarity reversal. This versatility really comes into its own when an installation needs to be altered or modernised, simply because no additional enclosures or cabling are required.
By providing this high degree of protection and versatility, **JACKPAC®** renders possible innovative automation concepts based on decentralised applications – without large control cabinets or small distribution boards – for consistent, transparent, efficient and cost-efficient installations.



- Easy ‘Plug and Play’ installation
- Universal and versatile usage
- No additional enclosure required
- Saves time and costs
- Ideal for decentralised concepts and plant modernisation (retrofitting)

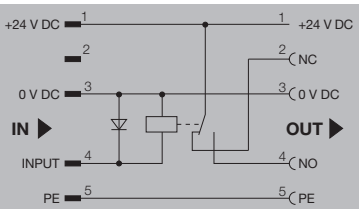
Switching amplifier

- Amplifiers are easily installed in the switching line of the actuator
- In this way, for example, the 24 V DC / 0.5 A switching outputs can be reinforced up to 24 V DC / 2 A.
- Optionally with galvanic isolation to isolate the input and output circuits, preventing reaction at the switching output
- Connection voltage input at the output via the T-distributor

JPR 24 V DC 1CO M12

without isolation

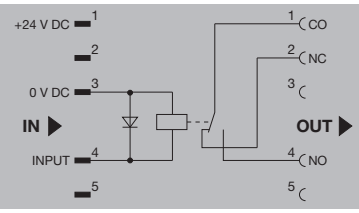




JPR 24 V DC ISO 1CO M12

With galvanic isolation





Technical data

Input		
Rated control voltage	24 V DC ±20 %	24 V DC ±20 %
Rated current DC	8 mA	8 mA
Power rating	200 mW	200 mW
Pull-in/drop-out voltage, typ.	16.8 V / 1.2 V DC	16.8 V / 1.2 V DC
Pull-in/drop-out current, typ.	5 mA / 1 mA DC	5 mA / 1 mA DC
Free-wheel diode		
Output		
DC switching capacity (resistive), max./AC switching capacity (resistive), max.	48 W @ 24 V /	48 W @ 24 V /
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Contact material	AgSnO	AgSnO
Mechanical service life	10 x 10^6 switching cycles	10 x 10^6 switching cycles
Max. switching frequency at rated load	0.1 Hz	0.1 Hz
Response time		
Insulation coordinates		
Rated voltage	300	300
Overvoltage category	III	III
Pollution degree	2	2
General data		
Ambient temperature (operational)	-25 °C...70 °C	-25 °C...70 °C
Storage temperature	-25 °C...70 °C	-25 °C...70 °C
Wire connection method	M12 plug/socket, A-coded	M12 plug/socket, A-coded
Approvals	cULus	cULus

Dimensions		
Clamping range (nominal / min. / max.)		
Length x width x height mm	83 / 36 / 14.4	83 / 36 / 14.4
Note	Data for TU = 20 °C	Data for TU = 20 °C

Ordering data

Type	Qty.	Order No.
JPR 24VDC 1CO M12	1	**8771420000**

Type	Qty.	Order No.
JPR 24VDC ISO 1CO M12	1	**8771430000**

Note

Accessories

Note	
	Retaining clip JP CLIP M: 8778490000
	Retaining clip JP CLIP M: 8778490000

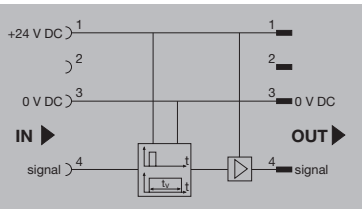
Timer relay

Signal extenders can be easily connected to the cable between the sensor and the input modules.
They extend the pulse length from a minimum 1 ms to 50 ms or 100 ms. This enables reliable recognition and evaluation of short sensor signals by the controller.

JPTA 50 MS 24VDC PNP M12

Pulse stretching, 50 ms

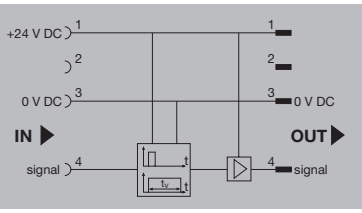




JPTA 100 MS 24VDC PNP M12

Pulse stretching, 100 ms





Technical data

Input		
Rated control voltage	18...24...30 V DC	18...24...30 V DC
Rated current DC	3,5...7,0...10,0 mA	3,5...7,0...10,0 mA
Switch-off delay	50 ms	100 ms
Output		
Max. switching voltage, DC	30 V	30 V
Max. switching current	400 mA	400 mA
Insulation coordinates		
Rated voltage	32 V	32 V
Impulse withstand voltage	330 V	330 V
Overvoltage category	I	I
Pollution degree	2	2
General data		
Ambient temperature (operational)	0 °C...60 °C	0 °C...60 °C
Storage temperature	-20 °C...85 °C	-20 °C...85 °C
Wire connection method	M12 plug/socket, A-coded	M12 plug/socket, A-coded
Approvals	CE; cULus; EAC	CE; cULus; EAC
Dimensions		
Clamping range (nominal / min. / max.)		
Length x width x height	/ 36 / 14.4	/ 36 / 14.4
Note		

Ordering data

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	**8771440000**

Type	Qty.	Order No.
JPTA100MS 24VDC PNP M12	1	**8836630000**

Note

Accessories

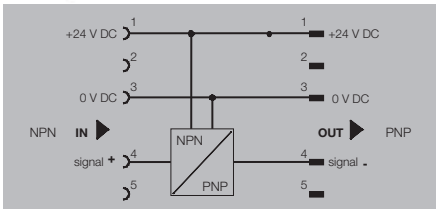
Note	
	Retaining clip JP CLIP M: 8778490000
	Retaining clip JP CLIP M: 8778490000

Signal inverter

Signal inverters convert PNP sensor signals to NPN signals and NPN signals back to PNP. This means that existing circuits do not require complex aleration and the existing inputs on the I/O cards can be put to best use. This is particularly well suited for the Asian and North American markets.

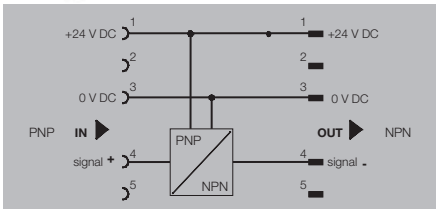
JPP NPN PNP 24 V DC





JPP PNP NPN 24 V DC





Technical data

Input		
Sensor	2-/ 3-Conductor Sensor NPN-type	2-/ 3-Conductor Sensor PNP-Type
Rated control voltage	18...24...30 V DC	18...24...30 V DC
Input current for sensor	< 200 mA	< 200 mA
Type of contact	NO contact	NO contact
Output		
Solid-state type	Solid state relay	Solid state relay
Rated switching voltage	18...30 V DC	18...30 V DC
Rated switching current	400 mA	400 mA
Voltage drop at max. load	≤ 1 V	
Insulation coordinates		
Rated voltage	32 V	32 V
Impulse withstand voltage		
Overvoltage category	I	I
Pollution degree	2	2
General data		
Ambient temperature (operational)	0 °C...60 °C	0 °C...60 °C
Storage temperature	-20 °C...85 °C	-20 °C...85 °C
Wire connection method	M12 plug/socket, A-coded	M12 plug/socket, A-coded
Approvals	cULus	CE; cULus

Dimensions			
Clamping range (nominal / min. / max.)			
Length x width x height	mm	83 / 36 / 14.4	83 / 36 / 14.4
Note			

Ordering data

Type	Qty.	Order No.
JPP NPN PNP 24VDC	1	**8852350000**

Type	Qty.	Order No.
JPP PNP NPN 24VDC	1	**8857030000**

Note

Accessories

Note	
	Retaining clip JP CLIP M: 8778490000

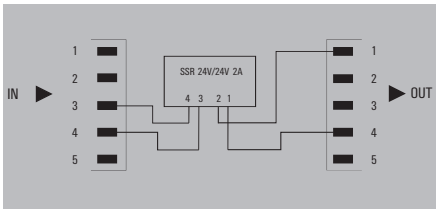
Note	
	Retaining clip JP CLIP M: 8778490000

Galvanic signal separation

There are applications in which the voltage potential of the second system parts should not be connected. In these case, it makes sense to perform a galvanic signal separation. For this purpose, this JACKPAC® was developed with a built-in optocoupler.

JPO 24VDC 0.2A M12S





Technical data

Input	
Rated control voltage	18...24...30 V DC
Nominal control current	0.01 A DC
Output	
Rated switching voltage	3...33 V DC
Rated switching current	200 mA
Insulation coordinates	
Rated voltage	32 V
Protection degree	IP67
Overvoltage category	I
Pollution degree	2
General data	
Ambient temperature (operational)	-20 °C...60 °C
Storage temperature	-20 °C...60 °C
Type of connection	M12 plug / plug, A-coded
Approvals	

Dimensions		
Clamping range (nominal / min. / max.)		
Length x width x height	mm	93 / 36 / 14.4
Note		Length of connected cable smaller than 30 m

Ordering data

Type	Qty.	Order No.
JPO 24VDC 0.2A M12S	1	**2465830000**

Note	

Accessories

Note	Retaining clip JP CLIP M: 8778490000

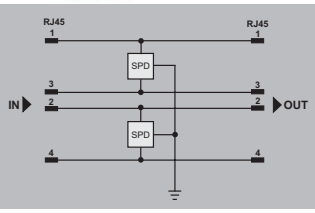
Surge protection

Surge protection protects equipment against surge voltages that can occur as a result of atmospheric discharges or storms. This type of protection, in the form of an adapter plug, is available in IP20 and IP67 versions and complies with the requirements of C 2 of IEC 61643-21.

JPOVP RJ45 Cat6 IP20

Ethernet Cat.6, Cable length 3 m





Technical data

Rated data IEC/EN	
Rated voltage (DC)	48 V
Rated current I_N	0.2 A
Rated voltage (AC)	34 V
Discharge I_{max} (8/20 µs) wire-wire/wire-PE/GND-PE	10 kA
Discharge current I_n (8/20µs) wire-wire	5 kA
Response time	≤ 5 ns
Insulation coordinates	
Rated voltage (DC)	48 V
Protection degree	IP20
Overvoltage category	III
Pollution degree	2
General data	
Ambient temperature (operational)	-25 °C...60 °C
Storage temperature	-25 °C...70 °C
Type of connection	IP20, RJ45 plug-in connector
Approvals	CE

Dimensions		
Clamping range (nominal / min. / max.)		
Length x width x height	mm	83 / 36 / 14.4
Note		Each with 1.5 m cable

Ordering data

Type	Qty.	Order No.
JPOVP RJ45 Cat6 IP20	1	**8805550000**

Note

Accessories

Note	Retaining clip JP CLIP M 8778490000

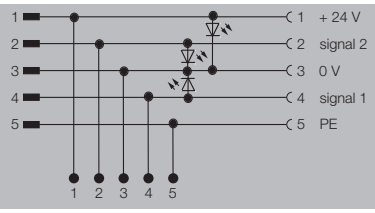
Test adapter

The JACKPAC® test adapter now provides a simple way of intervening into an M12 network. It can be integrated at any point and enables quick and easy connection of a testing device via 5 PUSH IN connections. Status displays indicate the status of the two signal channels and the 24 VDC auxiliary voltage.

JP TEST

with status indication





Technical data

Input	
Rated control voltage	18...24...30 V DC
Rated current DC	2.2 mA (LED)
Status indicator	Green LED
Output	
Continuous current	2 A
Power	2.2 mA at 24 V
General data	
Ambient temperature (operational)	0 °C...55 °C
Storage temperature	-25 °C...70 °C
Wire connection method	M12 plug/socket, A-coded
Approvals	CE

Dimensions		
Clamping range (nominal / min. / max.)		
Length x width x height	mm	83 / 36 / 14.4
Note		

Ordering data

Type	Qty.	Order No.
JP TEST	1	**8794120000**

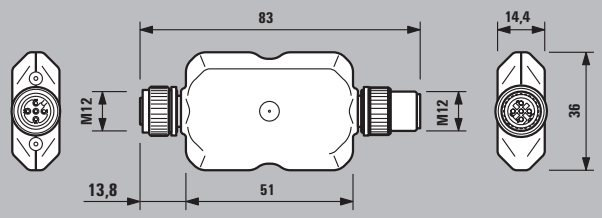
Note

Accessories

Note	Retaining clip JP CLIP M: 8778490000

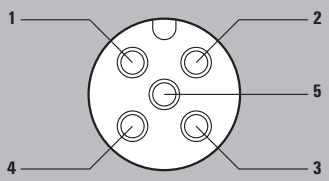
General data

Ingress protection class	IP67
Housing material	PBT, RAL 7032 (grey)
Flammability class	V0 to UL94
Screw socket	M12, CuZn, nickel plated, A-coded
Rated torque	0.8 ... 1 Nm



Contact assignment (socket)

Pole	Assignment
1	+24 V DC
2	Input / output 2
3	0 V DC
4	Input / output 1
5	PE / Earth



Accessories

Retaining clip



	Type	Qty.	Order No.
Stainless steel	JP CLIP M	1	**8778490000**

Twin plug



	Type	Qty.	Order No.
5-pole	SAI-Y-5S PARA M12/M12	1	**1783430000**

Screwty® M12



	Type	Qty.	Order No.
With torque	SCREWTY M12 DM	1	**1900001000**

Sensor cables



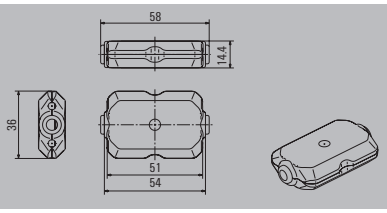
	Type	Qty.	Order No.
4-pole, length 0.3 m	SAIL-M12G-M12G-4-0.3U	1	**1906300030**
4-pole, length 0.6 m	SAIL-M12G-M12G-4-0.6U	1	**1906300050**
4-pole, length 1.5 m	SAIL-M12G-M12G-4-1.5U	1	**1906300150**
5-pole, length 0.3 m	SAIL-M12G-M12G-5-0.3U	1	**9457340030**
5-pole, length 0.6 m	SAIL-M12G-M12G-5-0.6U	1	**9457340060**
5-pole, length 1.5 m	SAIL-M12G-M12G-5-1.5U	1	**9457340150**

Additional accessories can be found in the Sensor Actuator Interface catalogue.

**Empty housing SAI JACKPAC®
for custom built-in components**

SAI JP

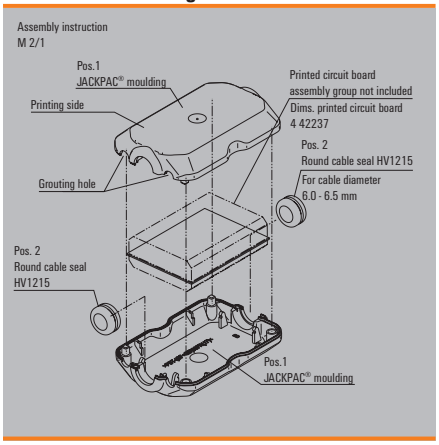




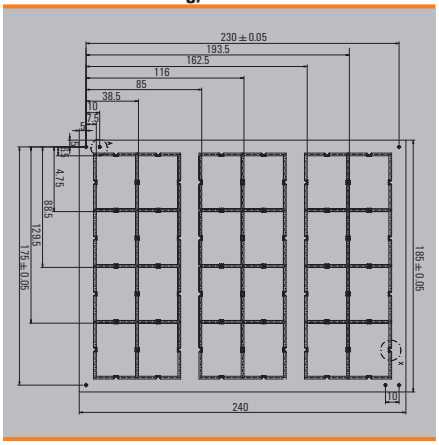
Technical data

General data	
Temperature range	-25 °C ... +70 °C
Connection system	M12 plug/socket, A-coded
Contact base material	AgSnO
Surface finish	Au

Dimensioned drawing SAI JP



Dimensioned drawing, PCBs



Dimensions		
Length x width x height	mm	83 x 36 x 14.4

Note	
	Please use high-viscosity or fast-cure compound.

Ordering data

Housing with M12 connectors		Type	No. of poles	Qty.	Order No.
Contents	1 piece	SAI JP 4P LG	4	1	1915220000
	1 piece	SAI JP 5P LG	5	1	1918520000
	100 pieces	SAI JP 4P LG 100	4	1	8794090000
	100 pieces	SAI JP 5P LG 100	5	1	8794080000
Note		Housing without M12 connectors SAI JP FC SET 1933680000 1 Qty. = 100 pieces			

Accessories

Device connectors

Device connectors	Introduction	I.2
	Quick finder	I.4
	Device connectors	I.6

Convenient design and assembly of reliable device solutions
Innovative M8 and M12 PCB connectors

In many areas of machine construction, M8 or M12 PCB connectors are the standard connectors used today. Not only have they been tried and tested in our SAI distributors, they are also used anywhere where harsh environmental conditions require a device design with especially reliable connections.

In addition to excellent connection quality, our M8 and M12 built-in connectors also offer very convenient installation. Certain M8 and M12 types may be soldered to the installation wall at the same distance. The PCB and housing can also be assembled separately before the nut and plug-in insert are combined in the end device.

The new M8 and M12 built-in connectors optimise proven standards while making it extremely easy and convenient to configure IP6x devices. They are suitable for reflow soldering and are available in a number of different variants for different soldering methods.

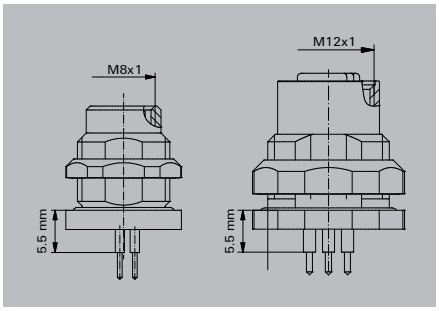


In the field of equipment manufacturing for the IP6x world, the smart M8 and M12 plug-in connectors offer the perfect solutions. They ensure reliable connections with a convenient device design and efficient final assembly.

Your special advantages

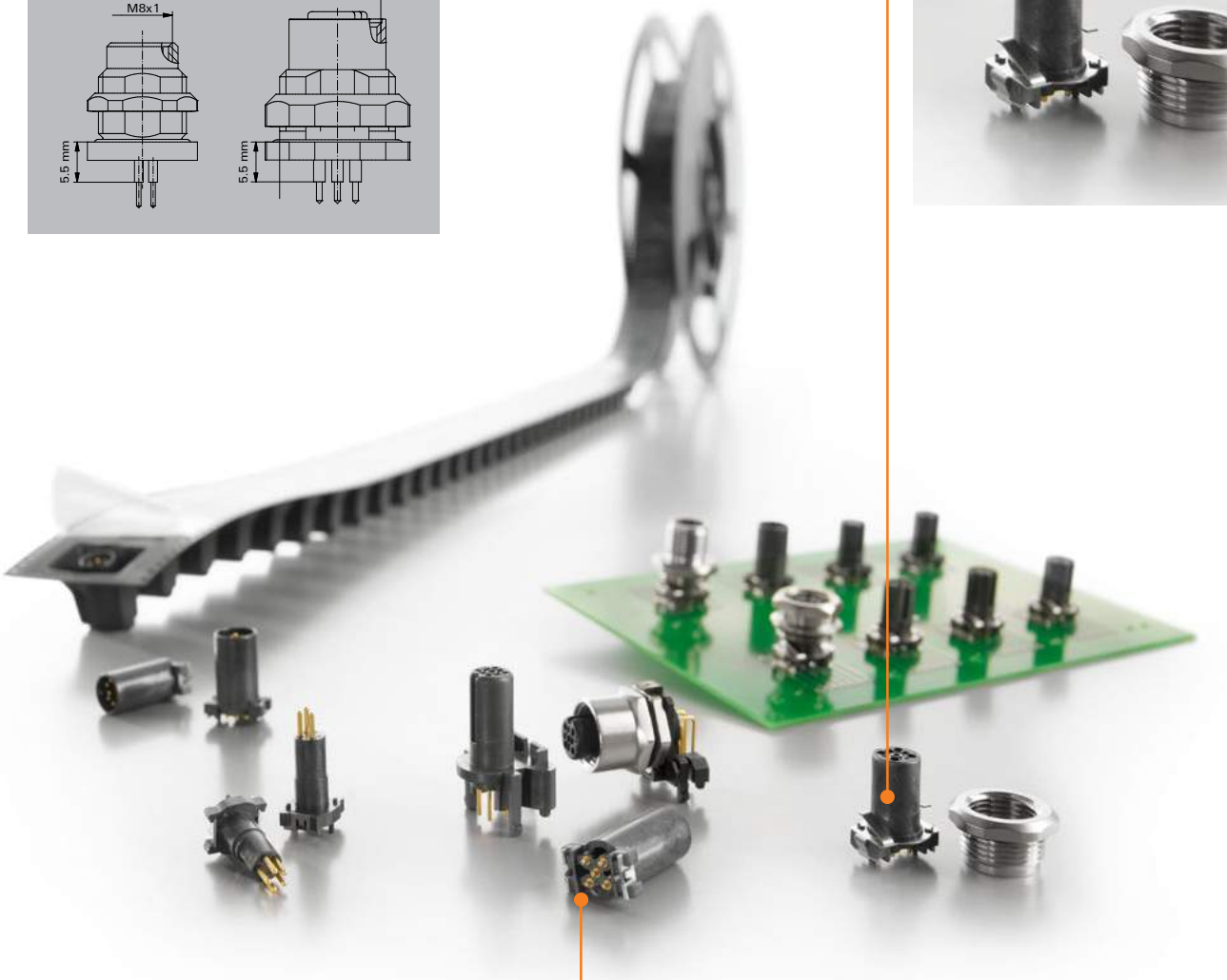
Standardised concept: All of the components in the entire M8 or M12 plug-in connector series are perfectly coordinated to one another, making design and assembly significantly easier.

Sophisticated system
Regardless of whether it's an M8 or M12, both plug-in connector types are characterised by a uniform distance from the PCB to the metal housing.



Two-component plug-in connector
Plug-in insert for the PCB; metal nut for the housing. These create the finished M-plug when assembled.





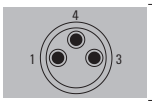
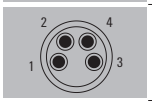
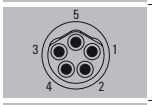
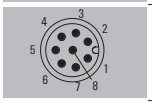
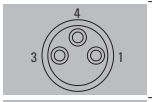
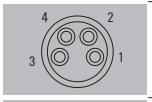
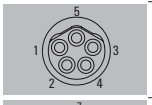
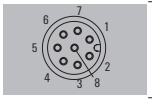
Reflow-suitable solution
The implementation of reflow solutions for SMD and THR assembly means that the M8 or M12 inserts can be handled in any soldering process.



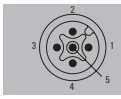
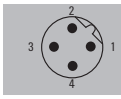
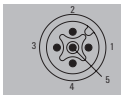
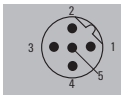
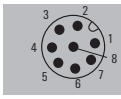
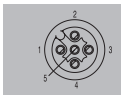
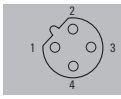
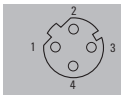
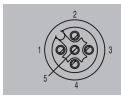
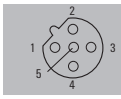
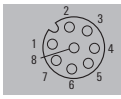
SAI lines are the perfect complement
At Weidmüller, you will find a wide range of complementary products in the form of lines and customisable plug-in connectors for field wiring.



Quick finder for dome and Flange-mounted housing

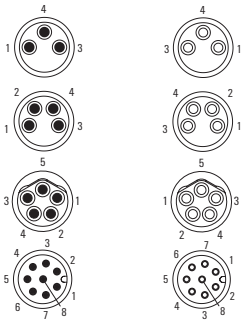
				Flange-mounted housing M8							
				Screw-in threads M10				Screw-in threads M12			
				Coupling housing		Plug housing		Coupling housing		Plug housing	
				Height 9 mm	Height 13 mm	Height 9 mm	Height 13 mm	Height 6 mm	Height 10 mm	Height 6 mm	Height 10 mm
											
	Mating profile	No. of poles	M8 Dom	2424430000	2424460000	2424520000	2424530000	2424480000	2424500000	2424540000	2424550000
M8 plug		3-pole	2421750000			X	X			X	X
		3-pole with shielding	2421810000			X	X			X	X
		4-pole	2421870000			X	X			X	X
		4-pole with shielding	2421930000			X	X			X	X
		B-coded, 5-pole	2421990000			X	X			X	X
		B-coded, 5-pole with shielding	2422050000			X	X			X	X
		8-pole	2422110000			X	X			X	X
		8-pole with shielding	2422170000			X	X			X	X
M8 socket		3-pole	2421720000	X	X			X	X		
		3-pole with shielding	2421780000	X	X			X	X		
		4-pole	2421840000	X	X			X	X		
		4-pole with shielding	2421900000	X	X			X	X		
		B-coded, 5-pole	2421960000	X	X			X	X		
		B-coded, 5-pole with shielding	2422020000	X	X			X	X		
		8-pole	2422080000	X	X			X	X		
		8-pole with shielding	2422140000	X	X			X	X		
Possible locknut				2424560000				2424570000			

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

				Flange-mounted housing M12		
				Screw-in threads M14		
				Coupling housing		Plug housing
				Height 9 mm	Height 13 mm	Height 9 mm
						
	Mating profile	No. of poles	M12 Dom	2423920000	2423950000	2423980000
M12 plug		4-pole	2422540000			X
		4-pole with shielding	2423500000			X
		B-coded, 4-pole with shielding	2422720000			X X
		5-pole	2422600000			X
		5-pole with shielding	2422560000			X
		B-coded, 5-pole with shielding	2422780000			X X
		8-pole	2422420000			X
		8-pole with shielding	2423620000			X
M12 socket		4-pole	2422060000	X	X	
		4-pole with shielding	2422180000	X	X	
		B-coded, 4-pole with shielding	2422840000	X X	X X	
		D-coded, 4-pole with shielding	2422960000	X X	X X	
		5-pole	2422120000	X	X	
		5-pole with shielding	2422240000	X	X	
		B-coded, 5–pole with shielding	2422900000	X X	X X	
		8-pole	2422480000	X	X	
		8-pole with shielding	2423380000	X	X	
Possible locknut				2424010000		

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

M8
Dip solder
one-piece



Rear panel mounting

Board-to-board distance: 5.5 mm



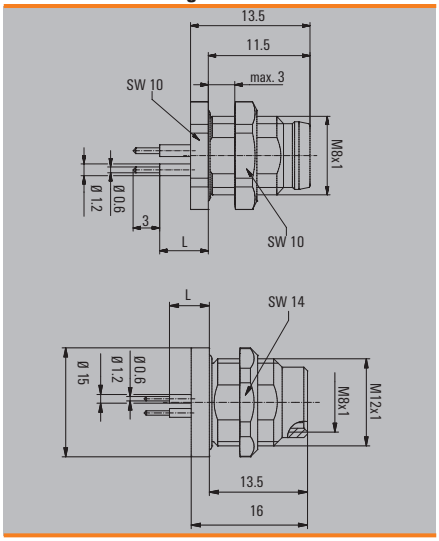
Ordering data

Male, straight			
3-pole	SAIE-M8S-3-H5.5TL	10	2421570000
4-pole	SAIE-M8S-4-H5.5TL	10	2421580000
B-coded, 5-pole	SAIE-M8S-5B-H5.5TL	10	2421590000
8-pole	SAIE-M8S-8-H5.5TL	10	2421690000
Female, straight			
4-pole	SAIE-M8B-4-H5.5TL	10	2421610000
B-coded, 5-pole	SAIE-M8B-5B-H5.5TL	10	2421630000
8-pole	SAIE-M8B-8-H5.5TL	10	2421650000
Note			

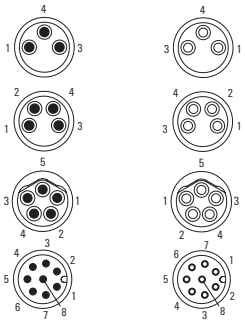
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm
Note	

Dimensioned drawing



M8, dip solder two-piece shielded



Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting

Board-to-board distance: 10 mm



Ordering data

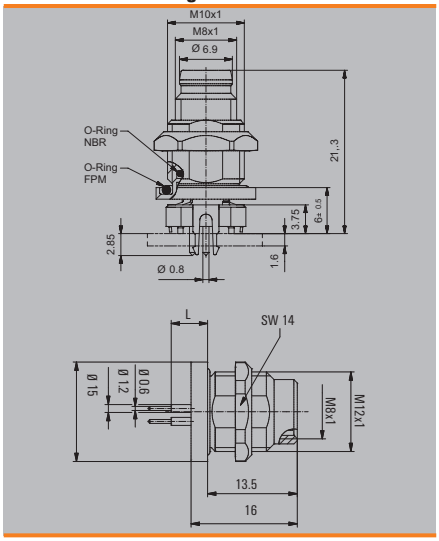
Male, straight			
3-pole	SAIE-M8S-3S-H6TL	25	2423490000
4-pole	SAIE-M8S-4S-H6TL	25	2423610000
Female, straight			
4-pole			
5-pole	SAIE-M8B-5S-H6TL	25	2423700000
8-pole	SAIE-M8B-8S-H6TL	25	2423400000
Note			

Type	Qty.	Order No.
SAIE-M8S-3S-H10TL	25	2423520000
SAIE-M8S-4S-H10TL	25	2423640000
SAIE-M8B-4S-H10TL	25	2423580000
SAIE-M8B-8S-H10TL	25	2423730000

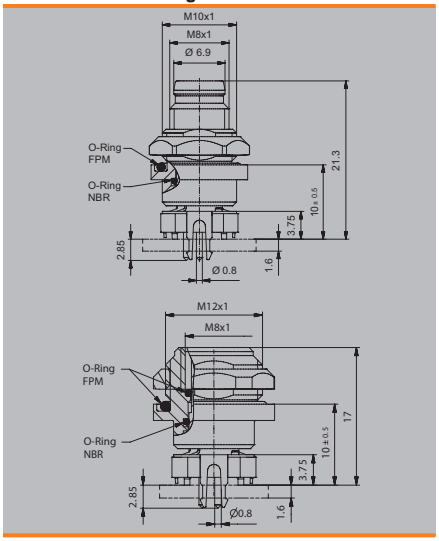
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm	0.8 Nm
Note		

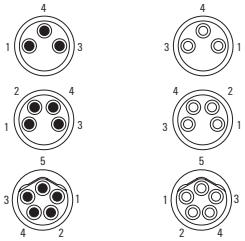
Dimensioned drawing



Dimensioned drawing



M8, dip solder
two-piece
shielded



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

Male, straight			
	3-pole		
Female, straight			
	4-pole	SAIE-M8B-4S-F9TL	25	**2423550000**
	5-pole			
Note			

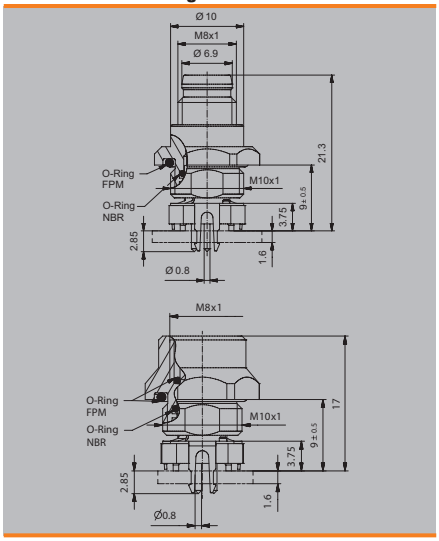
Type	Qty.	Order No.
SAIE-M8S-3S-F9TL	25	**2423430000**

Type	Qty.	Order No.
SAIE-M8S-3S-F13TL	25	**2423460000**
SAIE-M8B-5S-F13TL	25	**2423670000**

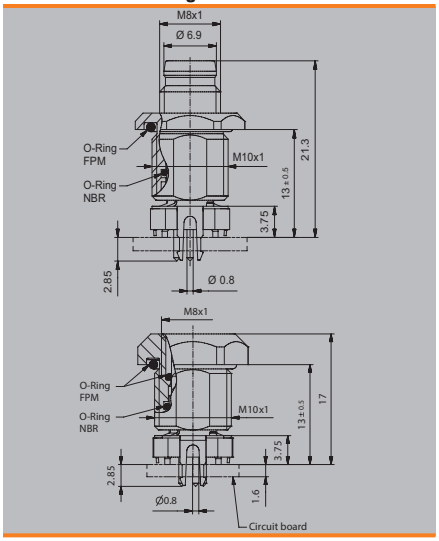
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

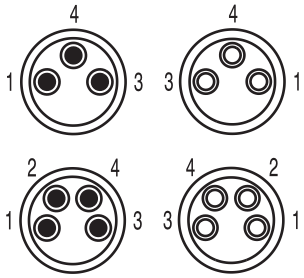
Dimensioned drawing



Dimensioned drawing



M8
Dip solder
two-piece
shielded



Male **Female**

Rear panel mounting

Board-to-board distance: 8 mm



Rear panel mounting

Board-to-board distance: 12 mm



Ordering data

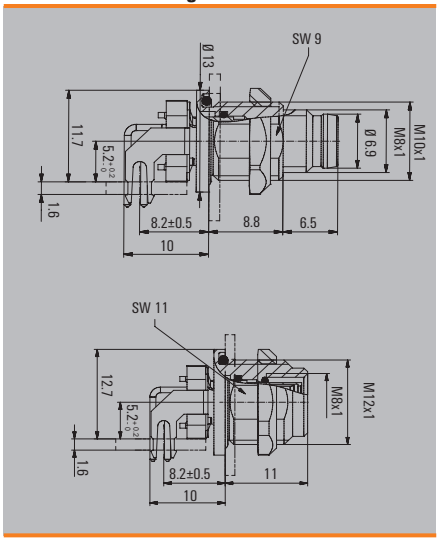
Male, angled			
3-pole	SAIEW-M8S-3S-H8TL	10	2424300000
4-pole	SAIEW-M8S-4S-H8TL	10	2424420000
Female, angled			
3-pole	SAIEW-M8B-3S-H8TL	10	2424250000
4-pole	SAIEW-M8B-4S-H8TL	10	2424360000
Note			

Type	Qty.	Order No.
SAIEW-M8S-3S-H12TL	10	2424330000
SAIEW-M8S-4S-H12TL	10	2424450000
SAIEW-M8B-3S-H12TL	10	2424280000
SAIEW-M8B-4S-H12TL	10	2424390000

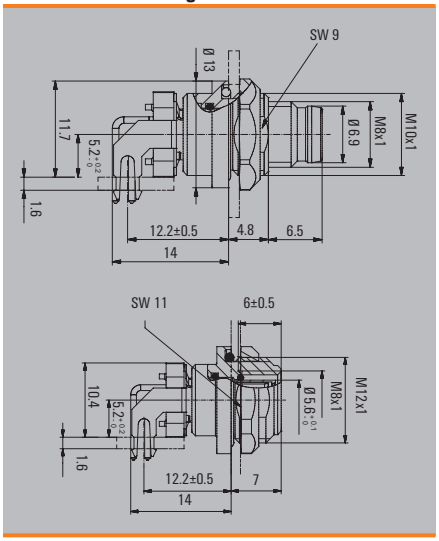
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-pole)	60 V (3-pole) / 30 V (4-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm	0.8 Nm
Note		

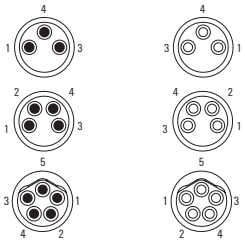
Dimensioned drawing



Dimensioned drawing



M8
THR
two-piece



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

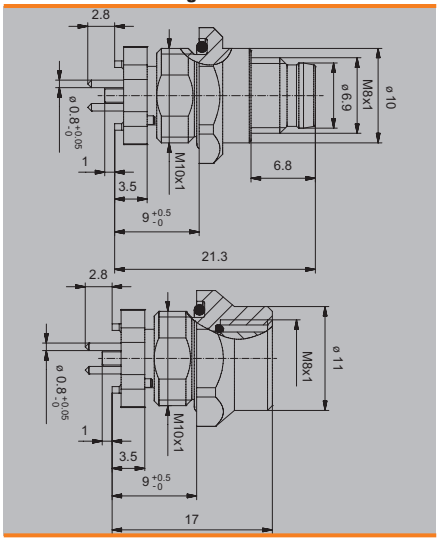
Male, straight			
3-pole	SAIE-M8S-3-F9THR	25	**2422860000**
4-pole	SAIE-M8S-4-F9THR	25	**2423070000**
Female, straight			
3-pole	SAIE-M8B-3-F9THR	25	**2422800000**
5-pole	SAIE-M8B-5-F9THR	25	**2423250000**
Note			

Type	Qty.	Order No.
SAIE-M8S-3-F13THR	25	**2422890000**
SAIE-M8S-4-F13THR	25	**2423100000**
SAIE-M8B-3-F13THR	25	**2422830000**
SAIE-M8B-5-F13THR	25	**2423280000**

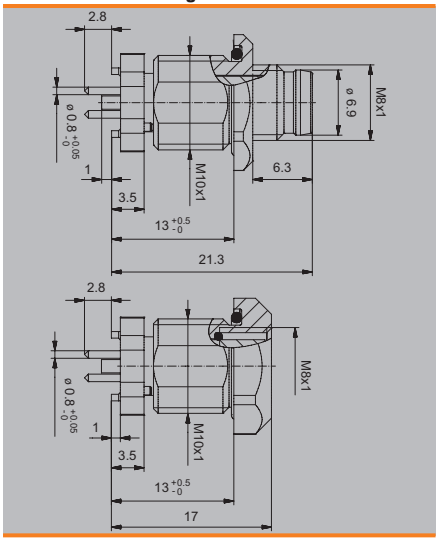
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

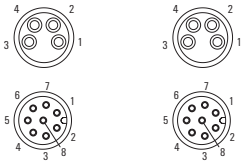
Dimensioned drawing



Dimensioned drawing



M8
THR
two-piece



Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting, shielded

Board-to-board distance: 10 mm



Ordering data

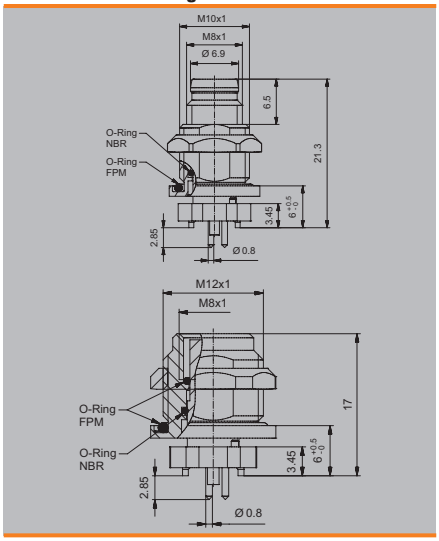
Male, straight			
4-pole			
Female, straight			
4-pole	SAIE-M8S-4-H6THR	25	**2423130000**
8-pole	SAIE-M8B-4-H6THR	25	**2422980000**
Note			

Type	Qty.	Order No.
SAIE-M8S-4S-H10THR	25	**2423220000**
SAIE-M8B-8S-H10THR	25	**2423370000**

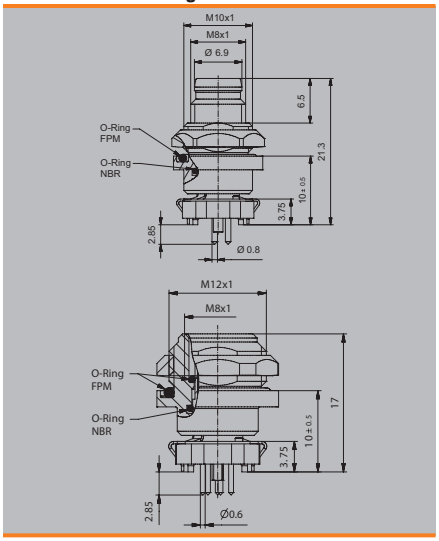
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V	30 V
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	Pin: M10 / Socket: M12	Pin: M10 / Socket: M12
Mounting torque range	0.8 Nm	0.8 Nm
Note		

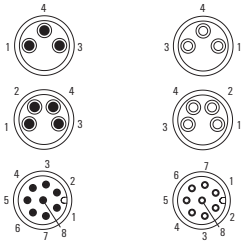
Dimensioned drawing



Dimensioned drawing



M8
THR
two-piece
shielded



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

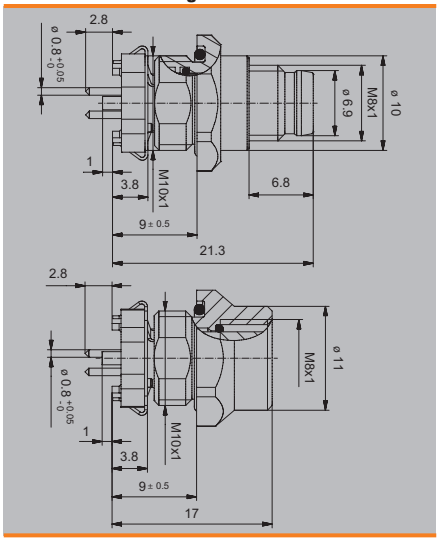
Male, straight			
3-pole	SAIE-M8S-3S-F9THR	25	**2422920000**
4-pole	SAIE-M8S-4S-F9THR	25	**2423160000**
Female, straight			
4-pole	SAIE-M8B-4S-F9THR	25	**2423010000**
8-pole	SAIE-M8B-8S-F9THR	25	**2423310000**
Note			

Type	Qty.	Order No.
SAIE-M8S-3S-F13THR	25	**2422950000**
SAIE-M8B-4S-F13THR	25	**2423040000**
SAIE-M8B-8S-F13THR	25	**2423340000**

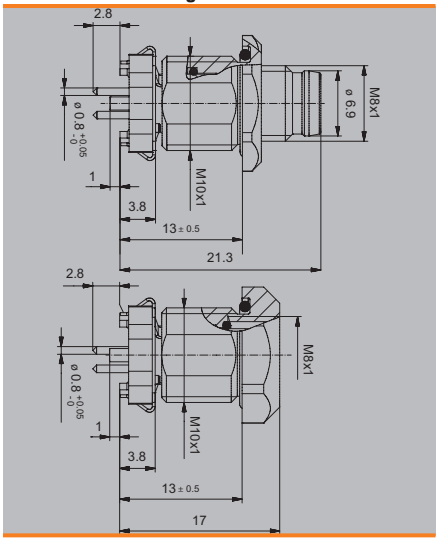
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

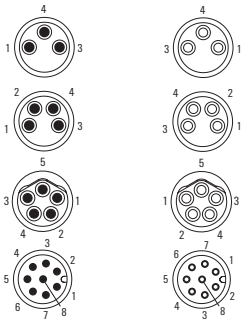
Dimensioned drawing



Dimensioned drawing



M8
THR
DOM



Male Female

Unshielded



Shielded



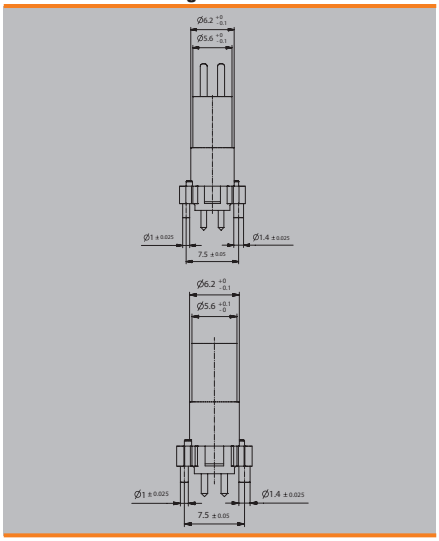
Ordering data

Male, straight						
	3-pole	SAID-M8S-3-THR	25	**2423790000**	SAID-M8S-3S-THR	25	**2423850000**
	4-pole	SAID-M8S-4-THR	25	**2423910000**	SAID-M8S-4S-THR	25	**2423970000**
	5-pole	SAID-M8S-5-THR	25	**2424030000**	SAID-M8S-5S-THR	25	**2424090000**
	8-pole	SAID-M8S-8-THR	25	**2424150000**	SAID-M8S-8S-THR	25	**2424220000**
Female, straight						
	3-pole	SAID-M8B-3-THR	25	**2423760000**	SAID-M8B-3S-THR	25	**2423820000**
	4-pole	SAID-M8B-4-THR	25	**2423880000**	SAID-M8B-4S-THR	25	**2423940000**
	5-pole	SAID-M8B-5-THR	25	**2424000000**	SAID-M8B-5S-THR	25	**2424060000**
	8-pole	SAID-M8B-8-THR	25	**2424130000**	SAID-M8B-8S-THR	25	**2424190000**
Note						

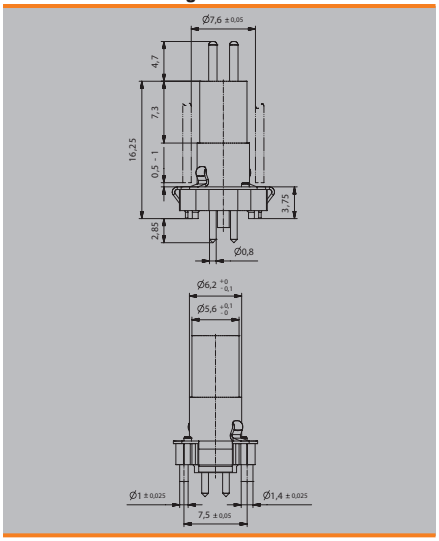
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-25...95 °C	-25...95 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	LCP	LCP
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread		
Mounting torque range		
Note		

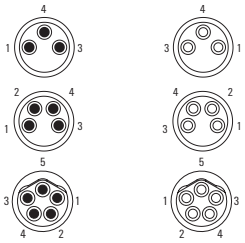
Dimensioned drawing



Dimensioned drawing



M8
SMT
two-piece



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

Male, straight			
	3-pole		
	4-pole		
Female, straight			
	3-pole		
	5-pole		
Note			

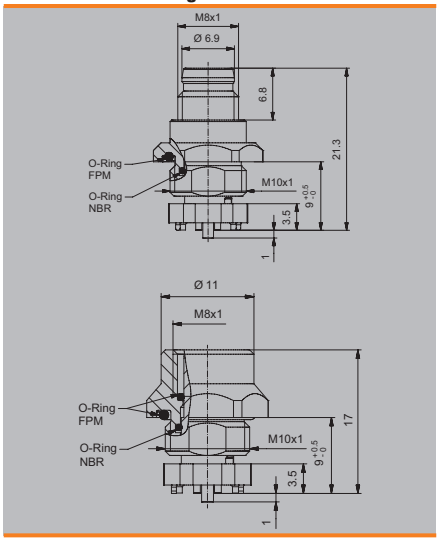
Type	Qty.	Order No.
SAIE-M8S-3-F9SMT	25	**2422260000**
SAIE-M8S-4-F9SMT	25	**2422470000**
SAIE-M8B-3-F9SMT	25	**2422200000**
SAIE-M8B-5-F9SMT	25	**2422650000**

Type	Qty.	Order No.
SAIE-M8S-3-F13SMT	25	**2422290000**
SAIE-M8S-4-F13SMT	25	**2422500000**
SAIE-M8B-3-F13SMT	25	**2422230000**
SAIE-M8B-5-F13SMT	25	**2422680000**

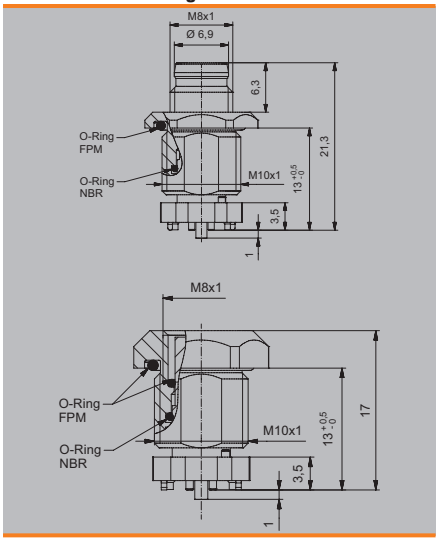
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

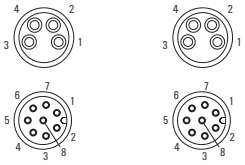
Dimensioned drawing



Dimensioned drawing



M8
SMT
two-piece



Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting, shielded

Board-to-board distance: 10 mm



Ordering data

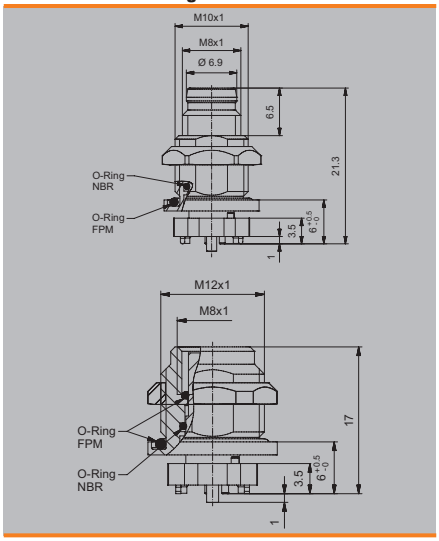
Male, straight			
4-pole	SAIE-M8S-4-H6SMT	25	2422530000
Female, straight			
4-pole	SAIE-M8B-4-H6SMT	25	2422380000
8-pole			
Note			

Type	Qty.	Order No.
SAIE-M8S-4S-H10SMT	25	2422620000
SAIE-M8B-8S-H10SMT	25	2422770000

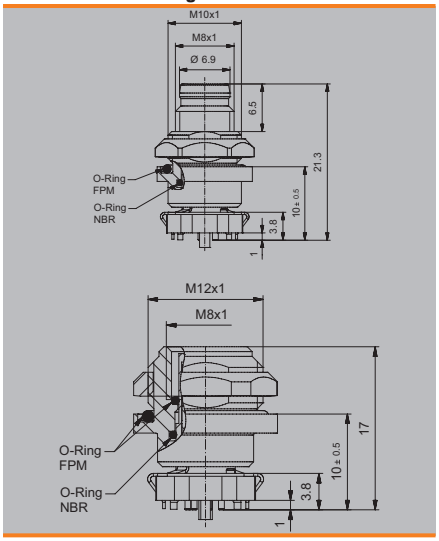
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V	30 V
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

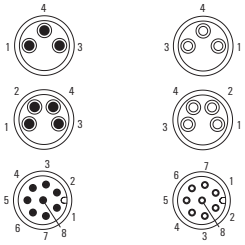
Dimensioned drawing



Dimensioned drawing



M8
SMT
two-piece
shielded



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

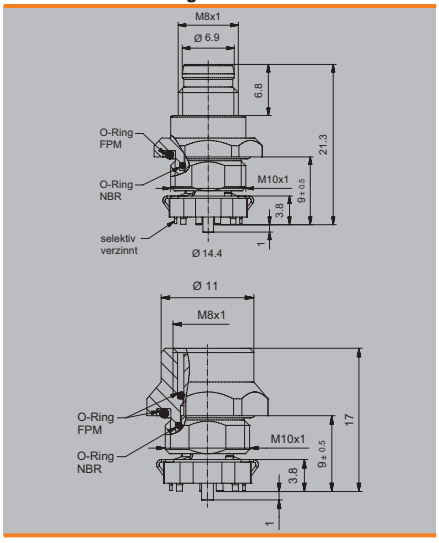
Male, straight			
3-pole	SAIE-M8S-3S-F9SMT	25	2422320000
4-pole	SAIE-M8S-4S-F9SMT	25	2422560000
Female, straight			
4-pole	SAIE-M8B-4S-F9SMT	25	2422410000
8-pole	SAIE-M8B-8S-F9SMT	25	2422710000
Note			

Type	Qty.	Order No.
SAIE-M8S-3S-F13SMT	25	2422350000
SAIE-M8S-4S-F13SMT	25	2422590000
SAIE-M8B-4S-F13SMT	25	2422440000
SAIE-M8B-8S-F13SMT	25	2422740000

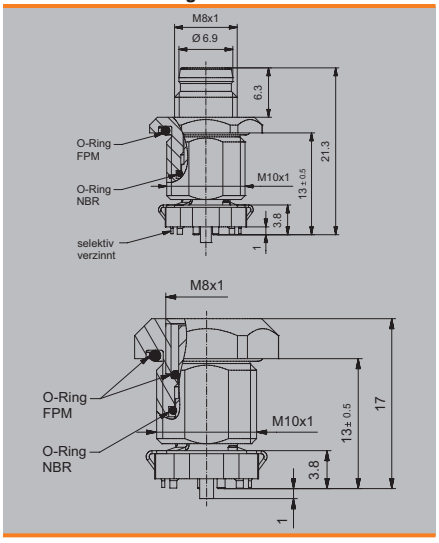
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread	M10	M10
Mounting torque range	0.8 Nm	0.8 Nm
Note		

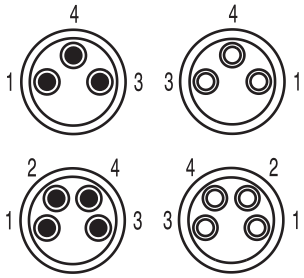
Dimensioned drawing



Dimensioned drawing



M8
SMT
DOM



Male Female

Unshielded



Shielded



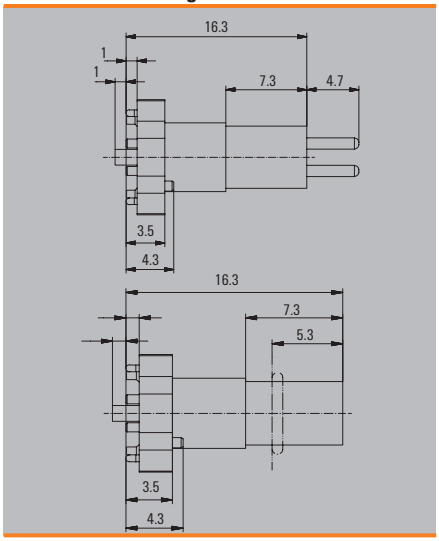
Ordering data

Male, straight		Type	Qty.	Order No.	Type	Qty.	Order No.
	3-pole	SAID-M8S-3-SMT	25	**2421750000**	SAID-M8S-3S-SMT	25	**2421810000**
	4-pole	SAID-M8S-4-SMT	25	**2421870000**	SAID-M8S-4S-SMT	25	**2421930000**
	5-pole	SAID-M8S-5-SMT	25	**2421990000**	SAID-M8S-5S-SMT	25	**2422050000**
	8-pole	SAID-M8S-8-SMT	25	**2422110000**	SAID-M8S-8S-SMT	25	**2422170000**
Female, straight							
	3-pole	SAID-M8B-3-SMT	25	**2421720000**	SAID-M8B-3S-SMT	25	**2421780000**
	4-pole	SAID-M8B-4-SMT	25	**2421840000**	SAID-M8B-4S-SMT	25	**2421900000**
	5-pole	SAID-M8B-5-SMT	25	**2421960000**	SAID-M8B-5S-SMT	25	**2422020000**
	8-pole	SAID-M8B-8-SMT	25	**2422080000**	SAID-M8B-8S-SMT	25	**2422140000**
Note							

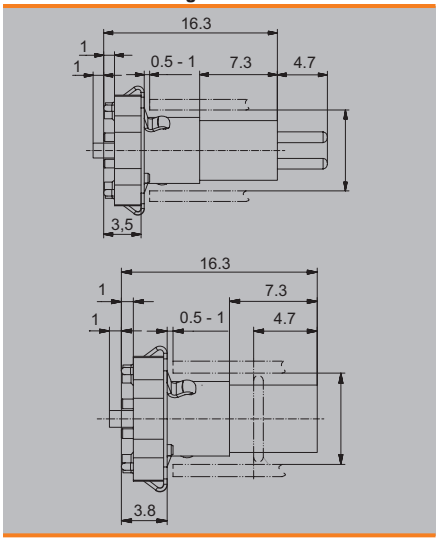
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-25...95 °C	-25...95 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	LCP	LCP
Connection thread	M8	M8
Tightening torque	M8: 0.5 Nm	M8: 0.5 Nm
Mounting thread		
Mounting torque range		
Note		

Dimensioned drawing



Dimensioned drawing

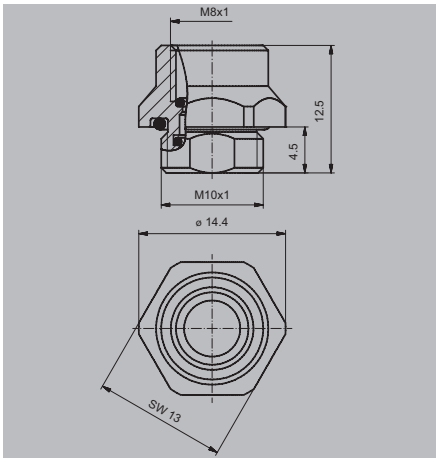


M8
Flange-mounted housing
Hexagon nut

Coupling

M10 height: 9 mm

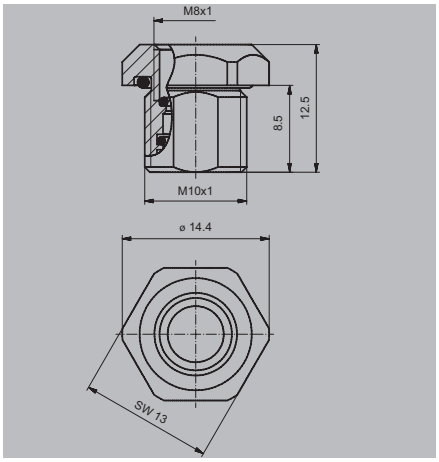




Coupling

M10 height: 13 mm





Technical data

Housing main material	CuZn	CuZn
Housing surface	nickel-plated	nickel-plated
Seal material	FPM, NBR	FPM, NBR

Note

Ordering data

Type	Qty.	Order No.
SAIFG-M8B-M10-9	25	**2424430000**

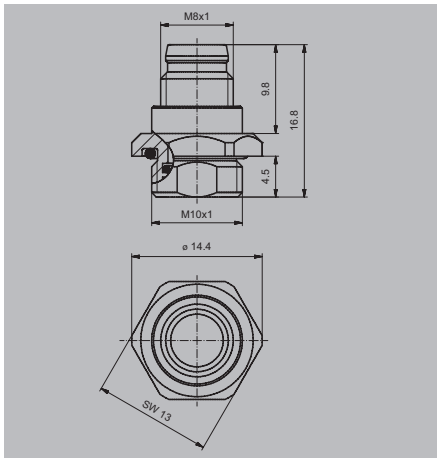
Type	Qty.	Order No.
SAIFG-M8B-M10-13	25	**2424460000**

Note

Plug connector

M10 height: 9 mm





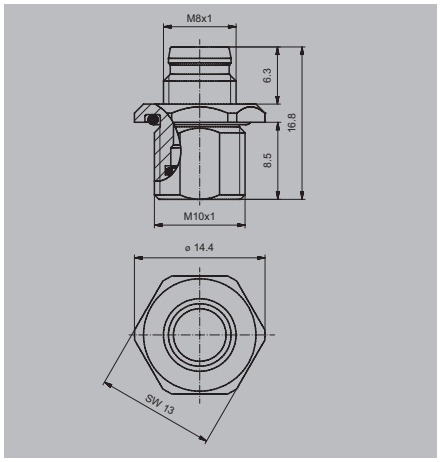
CuZn
nickel-plated
FPM, NBR

Type	Qty.	Order No.
SAIFG-M8S-M10-9	25	**2424520000**

Plug connector

M10 height: 13 mm





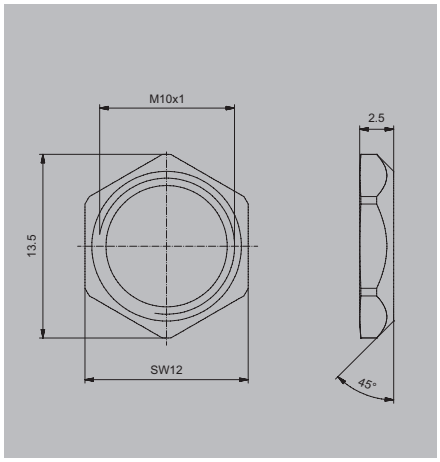
CuZn
nickel-plated
FPM, NBR

Type	Qty.	Order No.
SAIFG-M8S-M10-13	25	**2424530000**

Hexagon nut

M10 distance across flat: 12





CuZn
nickel-plated

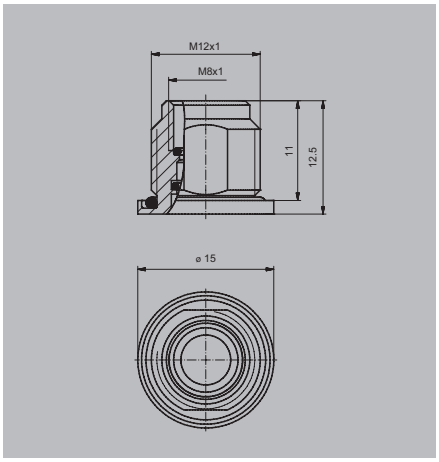
Type	Qty.	Order No.
SAIE-KMM10X1-SW12	25	**2424560000**

M8
Flange-mounted housing
Hexagon nut

Coupling

M12 height: 6 mm

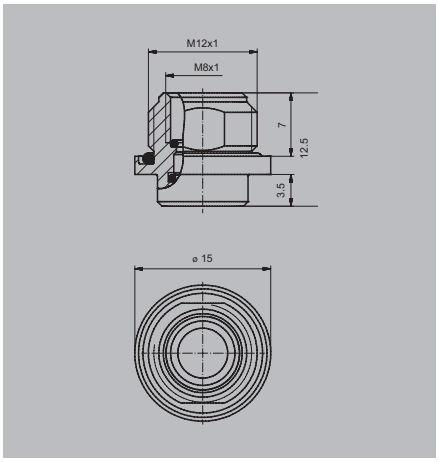




Coupling

M12 height: 10 mm





Technical data

Housing main material	CuZn	CuZn
Housing surface	nickel-plated	nickel-plated
Seal material	FPM, NBR	FPM, NBR

Note

Ordering data

Type	Qty.	Order No.
SAIHG-M8B-M12-6	25	**2424480000**

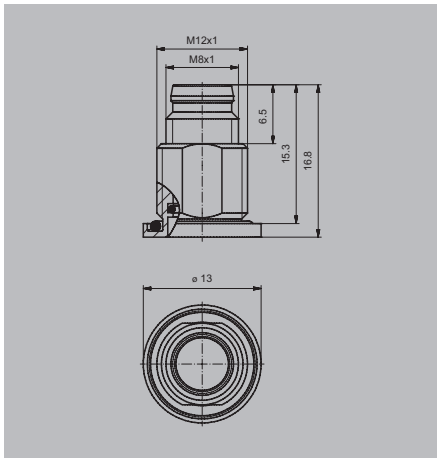
Type	Qty.	Order No.
SAIHG-M8B-M12-10	25	**2424500000**

Note

Plug connector

M12 height: 6 mm





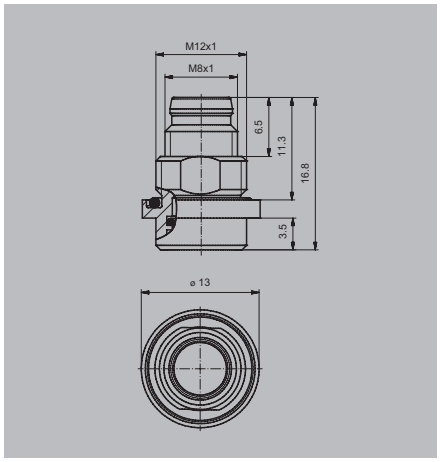
CuZn
nickel-plated
FPM, NBR

Type	Qty.	Order No.
SAIHG-M8S-M12-6	25	**2424540000**

Plug connector

M12 height: 10 mm





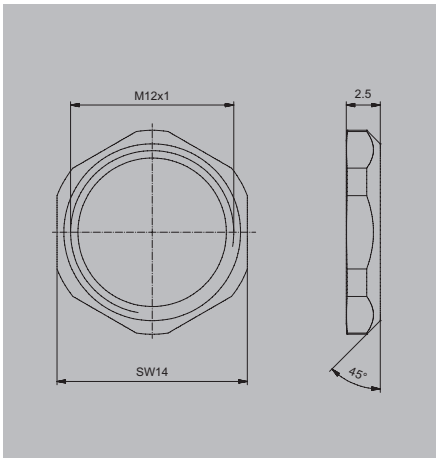
CuZn
nickel-plated
FPM, NBR

Type	Qty.	Order No.
SAIHG-M8S-M12-10	25	**2424550000**

Hexagon nut

M12 distance across flat: 14

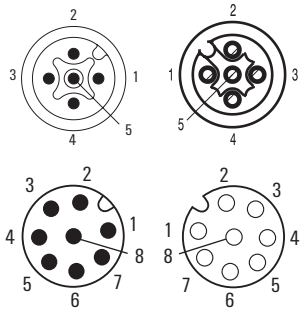




CuZn
nickel-plated

Type	Qty.	Order No.
SAIE-KMM12X1-SW14	25	**2424570000**

M12
Dip solder
one-piece
A-coded



Male Female

Back panel mounting, M16

Board-to-board distance: 5.5 mm



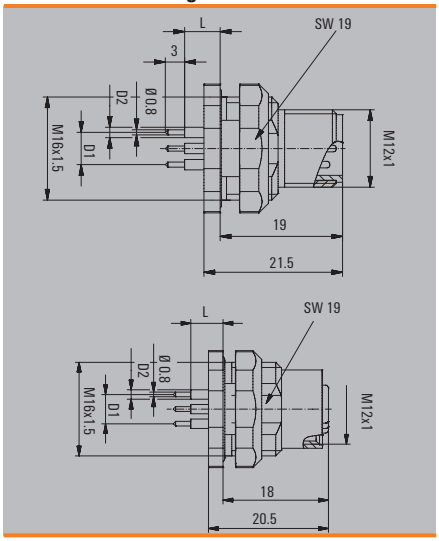
Ordering data

Male, straight			
	4-pole	SAIE-M12S-4-H5.5TL-M16	10	2421740000
	5-pole	SAIE-M12S-5-H5.5TL-M16	10	2421770000
	8-pole	SAIE-M12S-8-H5.5TL-M16	10	2421800000
Female, straight				
	4-pole	SAIE-M12B-4-H5.5TL-M16	10	2421600000
	5-pole	SAIE-M12B-5-H5.5TL-M16	10	2421620000
	8-pole	SAIE-M12B-8-H5.5TL-M16	10	2421640000
Note				

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing



Back panel mounting, M16

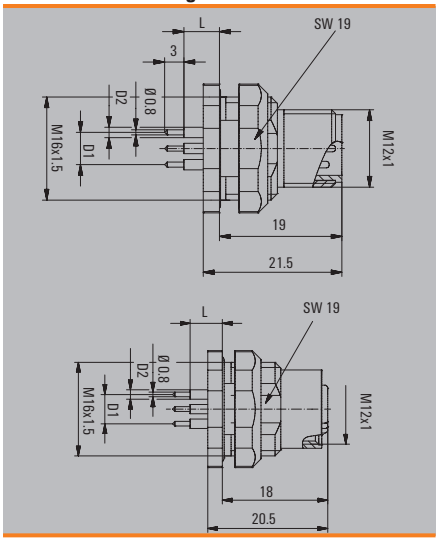
Board-to-board distance: 12 mm



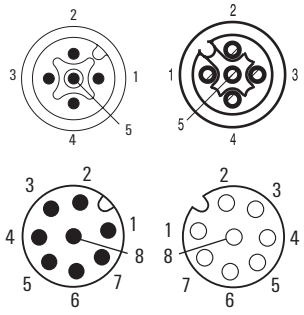
Type	Qty.	Order No.
SAIE-M12S-4-H12TL-M16	10	2421830000
SAIE-M12S-5-H12TL-M16	10	2421860000
SAIE-M12S-8-H12TL-M16	10	2421890000
SAIE-M12B-4-H12TL-M16	10	2421660000
SAIE-M12B-5-H12TL-M16	10	2421680000
SAIE-M12B-8-H12TL-M16	10	2421710000

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

Dimensioned drawing



M12
Dip solder
one-piece
A-coded



Male Female

Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Back panel mounting, PG9

Board-to-board distance: 12 mm



Ordering data

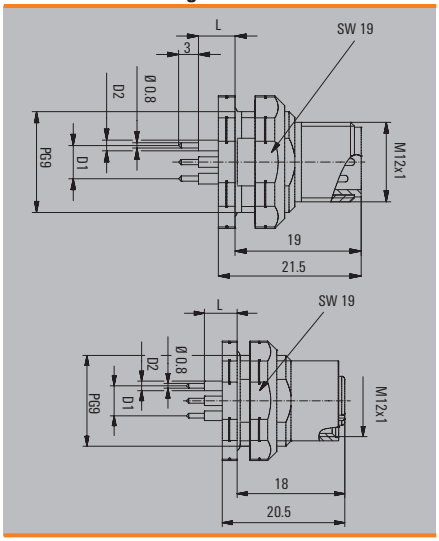
Male, straight	Type	Qty.	Order No.
4-pole	SAIE-M12S-4-H5.5TL-PG9	10	2422100000
5-pole	SAIE-M12S-5-H5.5TL-PG9	10	2422160000
8-pole	SAIE-M12S-8-H5.5TL-PG9	10	2422220000
Female, straight			
4-pole	SAIE-M12B-4-H5.5TL-PG9	10	2421920000
5-pole	SAIE-M12B-5-H5.5TL-PG9	10	2421980000
8-pole	SAIE-M12B-8-H5.5TL-PG9	10	2422040000
Note			

Type	Qty.	Order No.
SAIE-M12S-4-H12TL-PG9	10	2422130000
SAIE-M12S-5-H12TL-PG9	10	2422190000
SAIE-M12S-8-H12TL-PG9	10	2422250000
SAIE-M12B-4-H12TL-PG9	10	2421950000
SAIE-M12B-5-H12TL-PG9	10	2422010000
SAIE-M12B-8-H12TL-PG9	10	2422070000

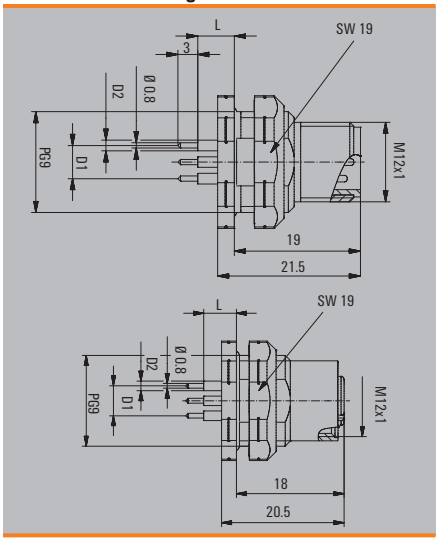
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	PG9	PG9
Mounting torque range	1.2 Nm	1.2 Nm
Note		

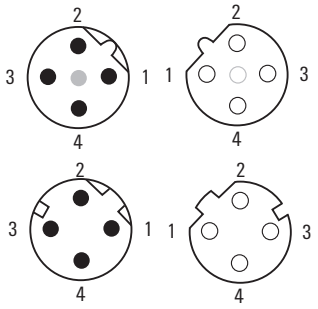
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
one-piece



Back panel mounting, M16

Board-to-board distance: 5.5 mm



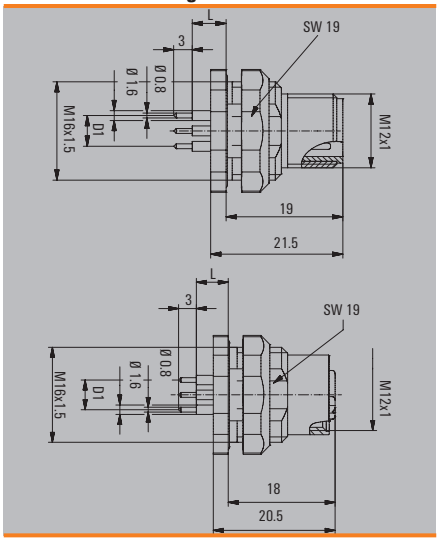
Ordering data

Male, straight			
	B-coded, 4-pole	10	**2422370000**
Female, straight			
	B-coded, 4-pole	10	**2422310000**
	D-coded, 4-pole	10	**2422430000**
Note			

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing



Back panel mounting, M16

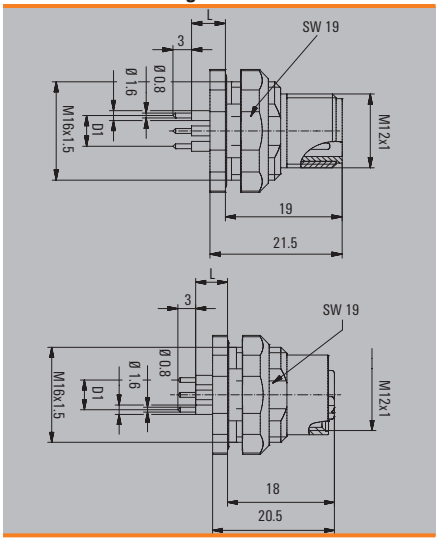
Board-to-board distance: 12 mm



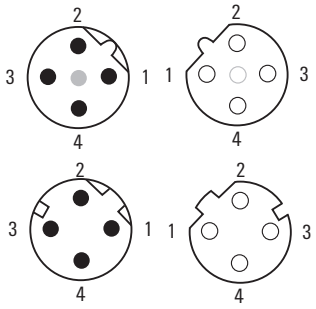
Type	Qty.	Order No.
SAIE-M12S-4B-H12TL-M16	10	**2422400000**
SAIE-M12B-4B-H12TL-M16	10	**2422340000**
SAIE-M12B-4D-H12TL-M16	10	**2422280000**

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

Dimensioned drawing



M12
Dip solder
one-piece



Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Back panel mounting, PG9

Board-to-board distance: 12 mm



Ordering data

Male, straight			
	B-coded, 4-pole	SAIE-M12SB-4-H5.5TL-PG9	10	**2421700000**
Female, straight				
	B-coded, 4-pole	SAIE-M12BB-4-H5.5TL-PG9	10	**2424490000**
	D-coded, 4-pole	SAIE-M12BD-4-H5.5TL-PG9	10	**2424440000**
Note				

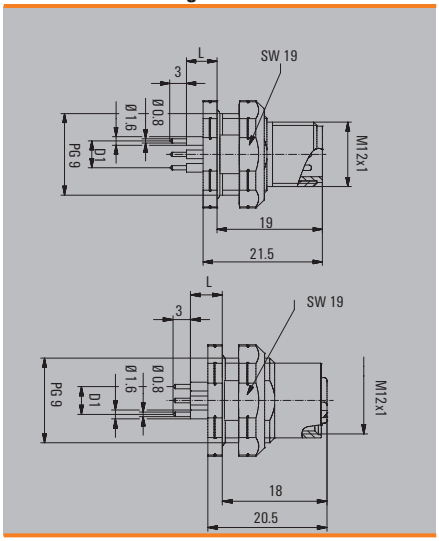
Type	Qty.	Order No.
SAIE-M12SB-4-H5.5TL-PG9	10	**2421700000**
SAIE-M12BB-4-H5.5TL-PG9	10	**2424490000**
SAIE-M12BD-4-H5.5TL-PG9	10	**2424440000**

Type	Qty.	Order No.
SAIE-M12SB-4-H12TL-PG9	10	**2421730000**
SAIE-M12BB-4-H12TL-PG9	10	**2424510000**
SAIE-M12BD-4-H12TL-PG9	10	**2424470000**

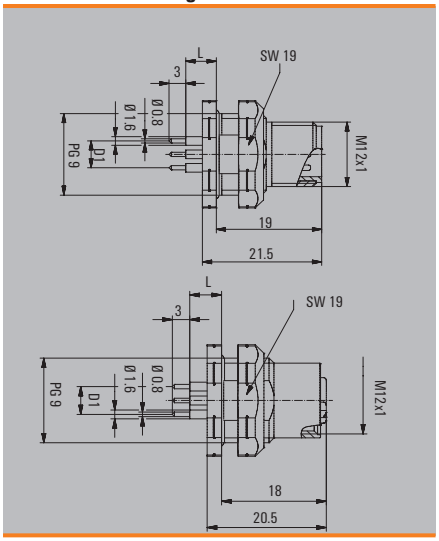
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V	250 V
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	PG9	PG9
Mounting torque range	1.2 Nm	1.2 Nm
Note		

Dimensioned drawing



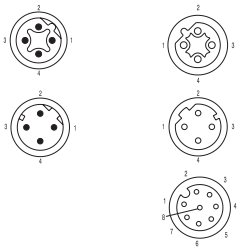
Dimensioned drawing



M12
Dip solder
one-piece
shielded

Rear panel mounting, M16

Board-to-board distance: 6.75 mm



Male female



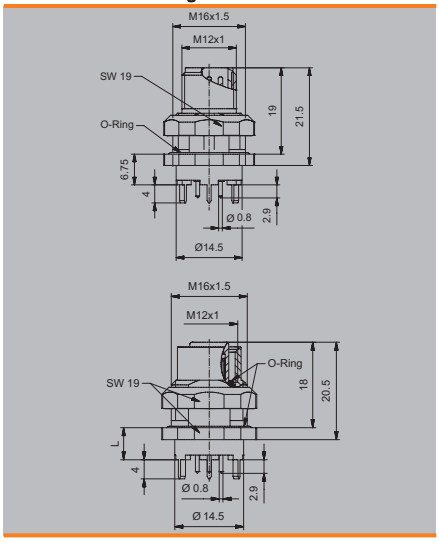
Ordering data

Male, straight		Type	Qty.	Order No.
	A-coded, 4-pole	SAIE-M12S-4AS-H6.75TL	10	**2424040000**
	A-coded, 5-pole	SAIE-M12S-5AS-H6.75TL	10	**2424070000**
	B-coded, 4-pole	SAIE-M12S-4BS-H6.75TL	10	**2424120000**
	D-coded, 4-pole	SAIE-M12S-4DS-H6.75TL	10	**2424100000**
Female, straight				
	A-coded, 4-pole	SAIE-M12B-4S-H6.75TL	10	**2421880000**
	A-coded, 5-pole	SAIE-M12B-5S-H6.75TL	10	**2421910000**
	A-coded, 8-pole	SAIE-M12B-8S-H6.75TL	10	**2421940000**
	B-coded, 4-pole	SAIE-M12BB-4S-H6.75TL	10	**2421970000**
	D-coded, 4-pole	SAIE-M12BD-4S-H6.75TL	10	**2422000000**
Note				

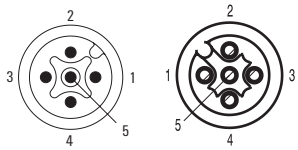
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (5-pole)/ 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Male Female

Rear panel mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 5.5 mm



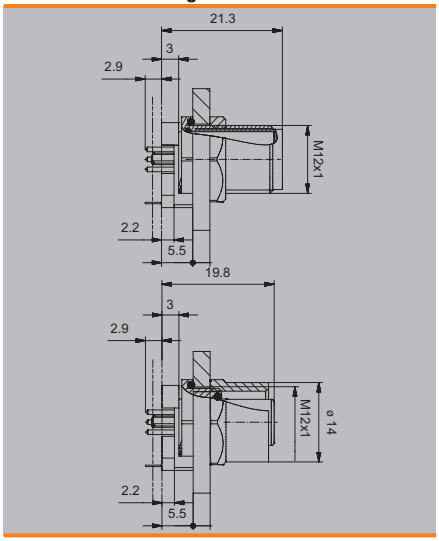
Ordering data

Male, straight	Type	Qty.	Order No.	Type	Qty.	Order No.
4-pole	SAIE-M12S-4-H5.5TL	10	**2423300000**	SAIE-M12S-4-F5.5TL	10	**2423060000**
5-pole	SAIE-M12S-5-H5.5TL	10	**2423360000**	SAIE-M12S-5-F5.5TL	10	**2423120000**
Female, straight						
4-pole	SAIE-M12B-4-H5.5TL	10	**2423180000**	SAIE-M12B-4-F5.5TL	10	**2422940000**
5-pole	SAIE-M12B-5-H5.5TL	10	**2423240000**	SAIE-M12B-5-F5.5TL	10	**2423000000**
Note						

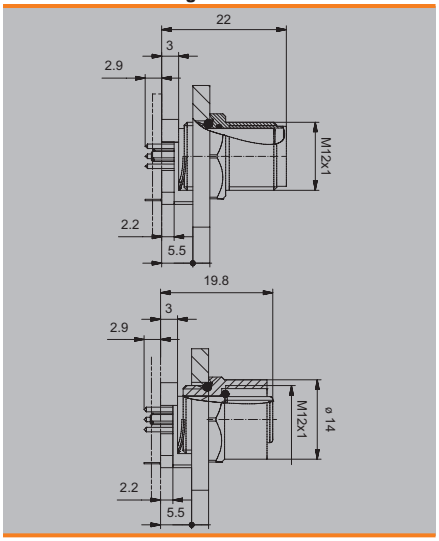
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

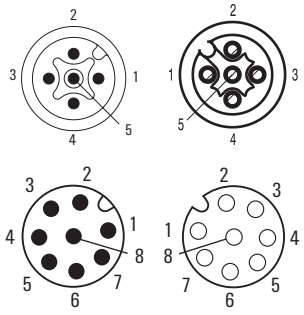
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Rear panel mounting

Board-to-board distance: 10 mm



Front mounting

Board-to-board distance: 10 mm



Ordering data

Male, straight			
4-pole	SAIE-M12S-4-H10TL	10	2422820000
5-pole	SAIE-M12S-5-H10TL	10	2422880000
Female, straight			
4-pole	SAIE-M12B-4-H10TL	10	2422700000
5-pole	SAIE-M12B-5-H10TL	10	2422760000
8-pole	SAIE-M12B-8-H10TL	10	2421820000
Note			

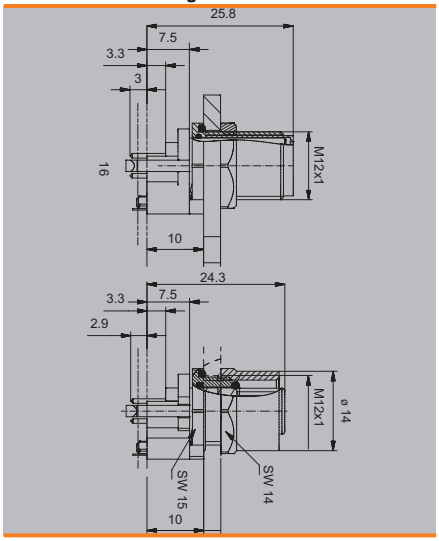
Type	Qty.	Order No.
SAIE-M12S-4-H10TL	10	2422820000
SAIE-M12S-5-H10TL	10	2422880000
SAIE-M12B-4-H10TL	10	2422700000
SAIE-M12B-5-H10TL	10	2422760000
SAIE-M12B-8-H10TL	10	2421820000

Type	Qty.	Order No.
SAIE-M12S-4-F10TL	10	2422580000
SAIE-M12S-5-F10TL	10	2422640000
SAIE-M12B-4-F10TL	10	2422460000
SAIE-M12B-5-F10TL	10	2422520000
SAIE-M12B-8-F10TL	10	2421760000

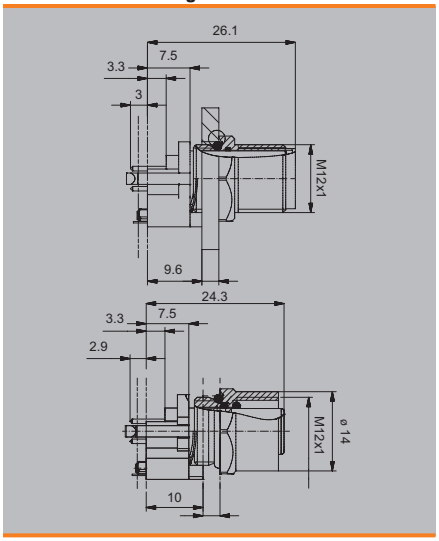
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

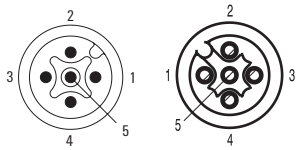
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Male Female

Rear panel mounting



Front mounting



Ordering data

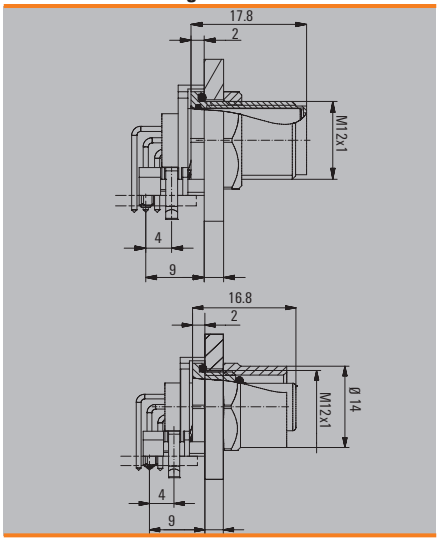
Male, angled	Type	Qty.	Order No.
4-pole	SAIEW-M12S-4-HTL	10	**2423660000**
5-pole	SAIEW-M12S-5-HTL	10	**2423720000**
Female, angled			
4-pole	SAIEW-M12B-4-HTL	10	**2423420000**
5-pole	SAIEW-M12B-5-HTL	10	**2423480000**
Note			

Type	Qty.	Order No.
SAIEW-M12S-4-FTL	10	**2423780000**
SAIEW-M12S-5-FTL	10	**2423840000**
SAIEW-M12B-4-FTL	10	**2423540000**
SAIEW-M12B-5-FTL	10	**2423600000**

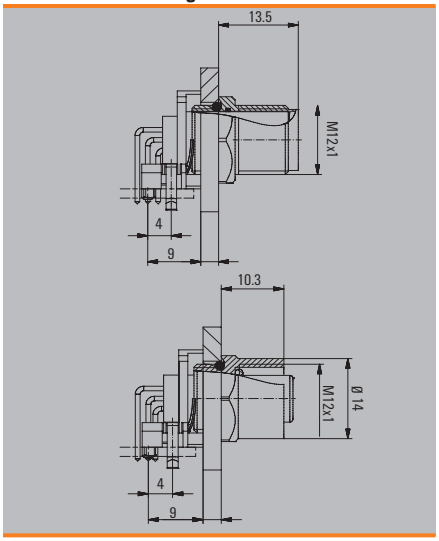
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

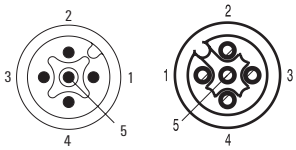
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
A-coded



Male Female

Rear panel mounting



Front mounting



Ordering data

Male, angled			
4-pole			
5-pole			
Female, angled			
4-pole			
5-pole			
Note			

Type	Qty.	Order No.
SAIEW-M12S-4S-HTL	10	**2423690000**
SAIEW-M12S-5S-HTL	10	**2423750000**
SAIEW-M12B-4S-HTL	10	**2423450000**
SAIEW-M12B-5S-HTL	10	**2423510000**

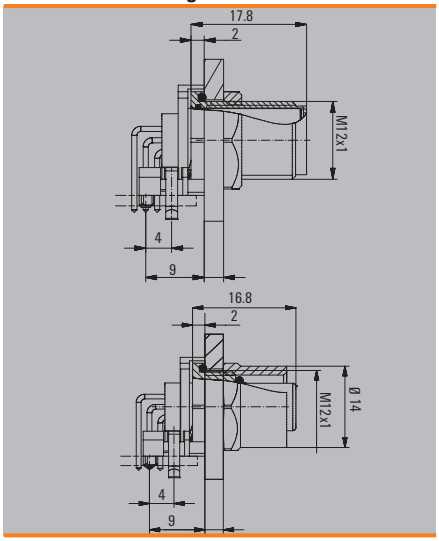
Type	Qty.	Order No.
SAIEW-M12S-4S-FTL	10	**2423810000**
SAIEW-M12S-5S-FTL	10	**2423870000**
SAIEW-M12B-4S-FTL	10	**2423570000**
SAIEW-M12B-5S-FTL	10	**2423630000**

Technical data

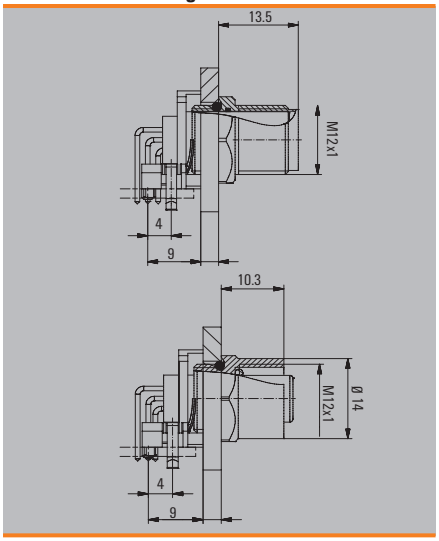
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

250 V (4-pole) / 60 V (5-pole)	
4 A	
-30...80 °C	
IP67	
Au (Gold)	
CuZn, nickel-plated	
M12	
M12: 0.8 Nm	
M12	
1.2 Nm	

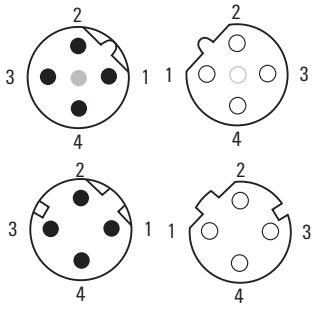
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded



Rear panel mounting



Front mounting



Ordering data

Male, angled			
	B-coded, 4-pole		
Female, angled			
	B-coded, 4-pole		
	D-coded, 4-pole		
Note			

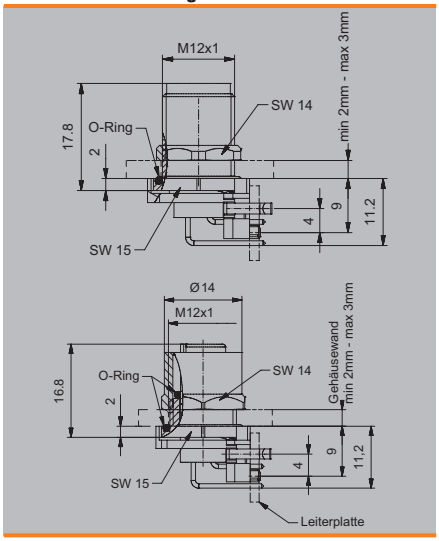
Type	Qty.	Order No.
SAIEW-M12SB-4-HTL	10	**2424350000**
SAIEW-M12BB-4-HTL	10	**2424290000**
SAIEW-M12BD-4-HTL	10	**2424410000**

Type	Qty.	Order No.
SAIEW-M12SB-4-FTL	10	**2424320000**
SAIEW-M12BB-4-FTL	10	**2424260000**
SAIEW-M12BD-4-FTL	10	**2424380000**

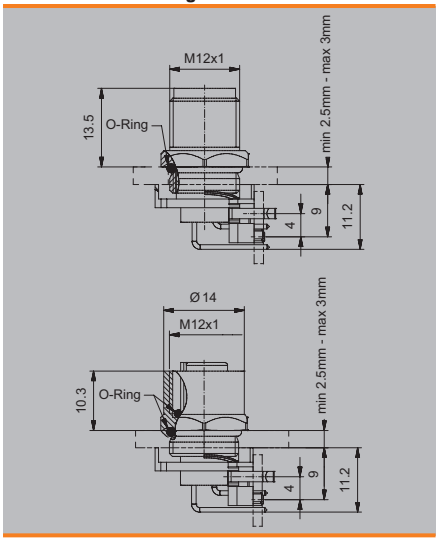
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V	250 V
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

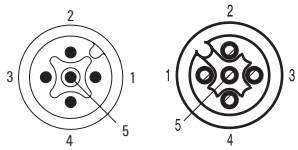
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
A-coded



Rear panel mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 5.5 mm



Ordering data

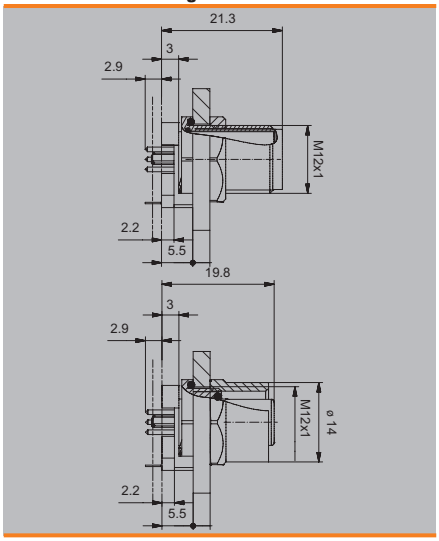
Male, straight			
4-pole	SAIE-M12S-4S-H5.5TL	10	**2423330000**
5-pole	SAIE-M12S-5S-H5.5TL	10	**2423390000**
Female, straight			
4-pole	SAIE-M12B-4S-H5.5TL	10	**2423210000**
5-pole	SAIE-M12B-5S-H5.5TL	10	**2423270000**
Note			

Type	Qty.	Order No.
SAIE-M12S-4S-F5.5TL	10	**2423090000**
SAIE-M12S-5S-F5.5TL	10	**2423150000**
SAIE-M12B-4S-F5.5TL	10	**2422970000**
SAIE-M12B-5S-F5.5TL	10	**2423030000**

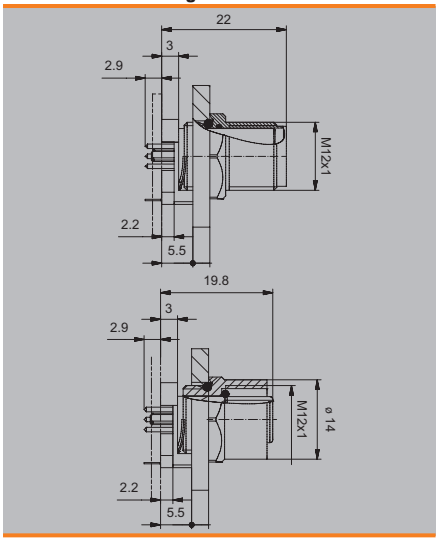
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

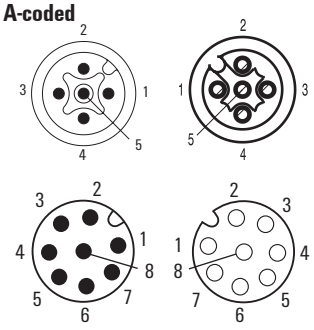
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
A-coded



Male **Female**

Rear panel mounting

Board-to-board distance: 10 mm



Front mounting

Board-to-board distance: 10 mm



Ordering data

Male, straight	Type	Qty.	Order No.
4-pole	SAIE-M12S-4S-H10TL	10	**2422850000**
5-pole	SAIE-M12S-5S-H10TL	10	**2422910000**
Female, straight			
4-pole	SAIE-M12B-4S-H10TL	10	**2422730000**
5-pole	SAIE-M12B-5S-H10TL	10	**2422790000**
8-pole	SAIE-M12B-8S-H10TL	10	**2421850000**
Note			

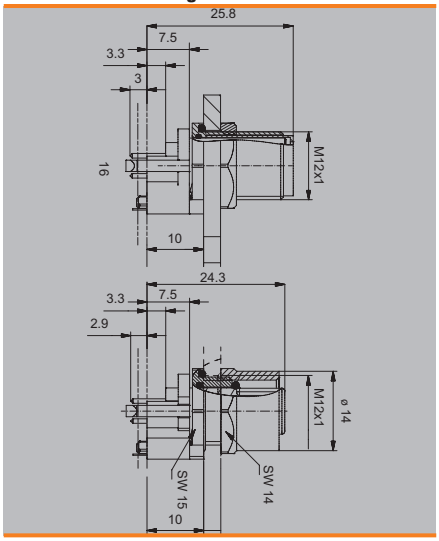
Type	Qty.	Order No.
SAIE-M12S-4S-F10TL	10	**2422610000**
SAIE-M12S-5S-F10TL	10	**2422670000**
SAIE-M12B-4S-F10TL	10	**2422490000**
SAIE-M12B-5S-F10TL	10	**2422550000**
SAIE-M12B-8S-F10TL	10	**2421790000**

Technical data

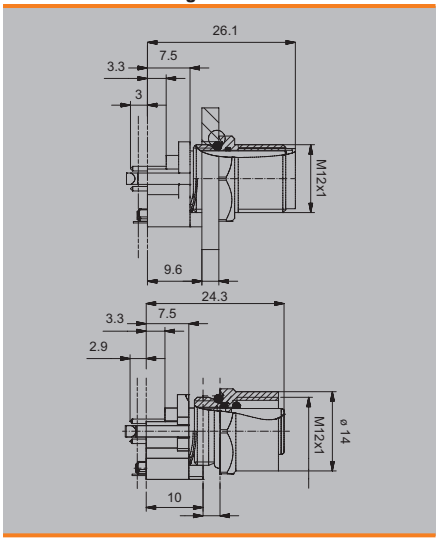
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

250 V (4-pole) / 60 V (5-pole)	
4 A	
-30...80 °C	
IP67	
Au (Gold)	
CuZn, nickel-plated	
M12	
M12: 0.8 Nm	
M12	
1.2 Nm	

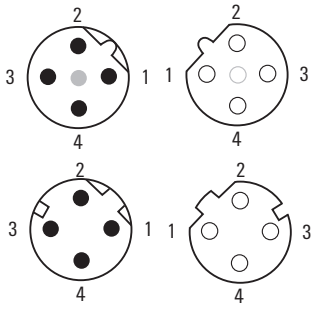
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded



Rear panel mounting

Board-to-board distance: 5.5 mm



Rear panel mounting

Board-to-board distance: 10 mm



Ordering data

Male, straight			
	B-coded, 4-pole		
Female, straight			
	B-coded, 4-pole	SAIE-M12BB-4-H5.5TL	10	**2424050000**
	D-coded, 4-pole	SAIE-M12BD-4-H5.5TL	10	**2424230000**
Note			

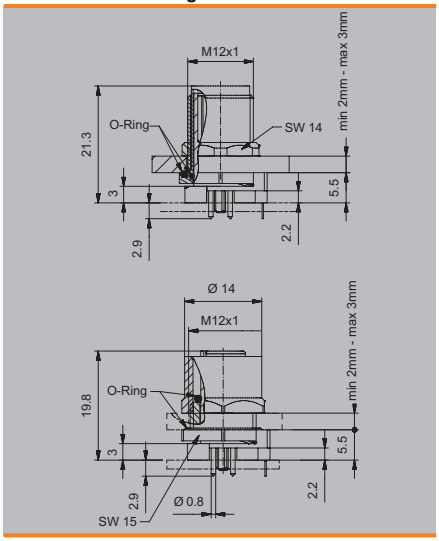
Type	Qty.	Order No.
SAIE-M12SB-4-H5.5TL	10	**2424110000**

Type	Qty.	Order No.
SAIE-M12SB-4-H10TL	10	**2423990000**
SAIE-M12BB-4-H10TL	10	**2423930000**
SAIE-M12BD-4-H10TL	10	**2424170000**

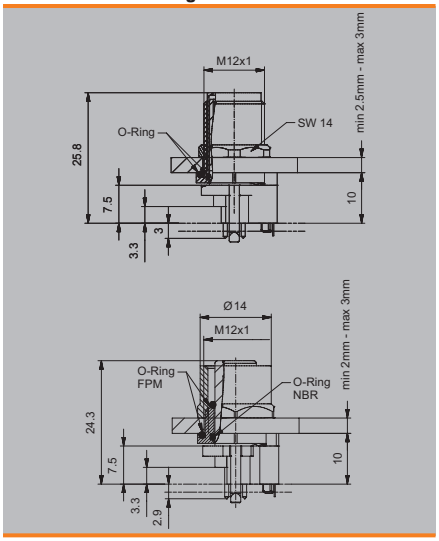
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V	250 V
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M12	M12
Mounting torque range	1.2 Nm	1.2 Nm
Note		

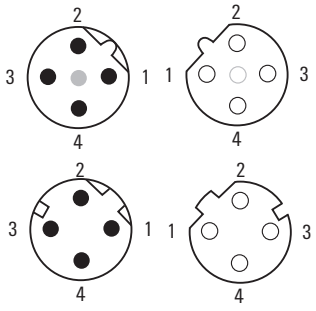
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded



Front mounting

Board-to-board distance: 5.5 mm





Front mounting

Board-to-board distance: 10 mm





Ordering data

Male, straight			
	B-coded, 4-pole		
Female, straight			
	B-coded, 4-pole	SAIE-M12BB-4-F5.5TL	10	**2424020000**
	D-coded, 4-pole	SAIE-M12BD-4-F5.5TL	10	**2424200000**
Note			

Type	Qty.	Order No.
SAIE-M12SB-4-F5.5TL	10	**2424080000**
SAIE-M12BB-4-F5.5TL	10	**2424020000**
SAIE-M12BD-4-F5.5TL	10	**2424200000**

Type	Qty.	Order No.
SAIE-M12SB-4-F10TL	10	**2423960000**
SAIE-M12BB-4-F10TL	10	**2423900000**
SAIE-M12BD-4-F10TL	10	**2424140000**

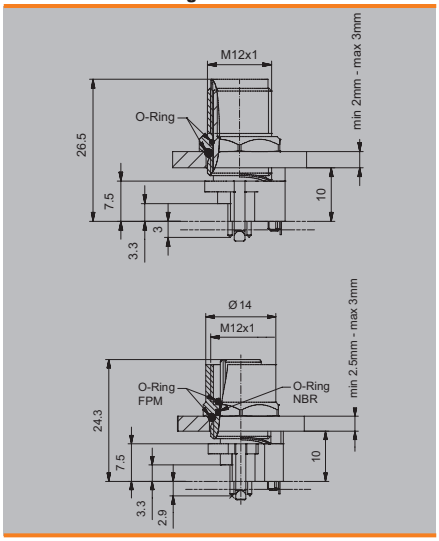
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

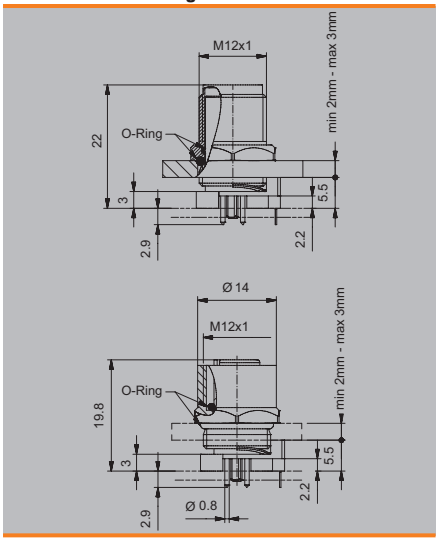
250 V	
4 A	
-30...80 °C	
IP67	
Au (Gold)	
CuZn, nickel-plated	
M12	
M12: 0.8 Nm	
M12	
1.2 Nm	

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

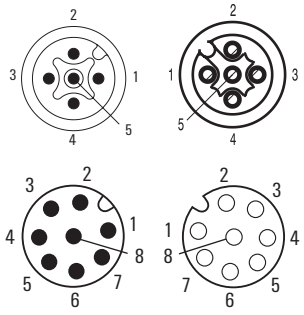
Dimensioned drawing



Dimensioned drawing



M12
SMT
two-piece
A-coded



Male Female

Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



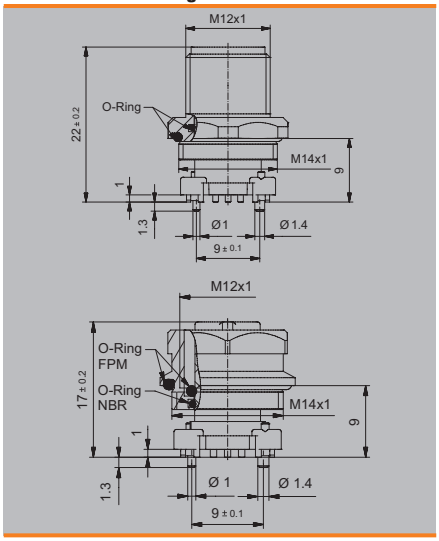
Ordering data

Male, straight	Type	Qty.	Order No.	Type	Qty.	Order No.
4-pole	SAIE-M12S-4-9/14SMT	25	**2423200000**			
5-pole	SAIE-M12S-5-9/14SMT	25	**2423230000**			
8-pole	SAIE-M12S-8-9/14SMT	25	**2423260000**			
Female, straight						
4-pole	SAIE-M12B-4-9SMT	25	**2422300000**	SAIE-M12B-4-13/14SMT	25	**2423020000**
5-pole	SAIE-M12B-5-9SMT	25	**2422330000**	SAIE-M12B-5-13/14SMT	25	**2423050000**
8-pole	SAIE-M12B-8-9/14SMT	25	**2423440000**	SAIE-M12B-8-13/14SMT	25	**2423080000**
Note						

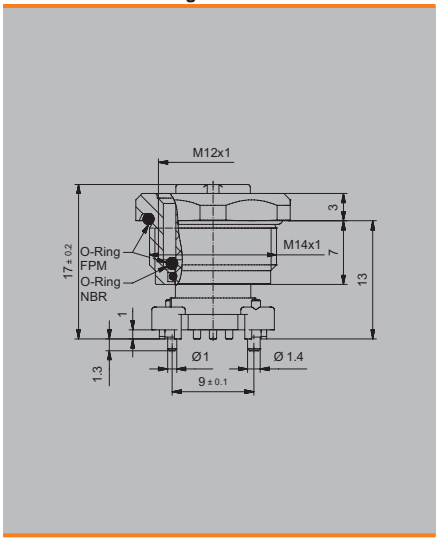
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M14	M14
Mounting torque range	1.2 Nm	1.2 Nm
Note		

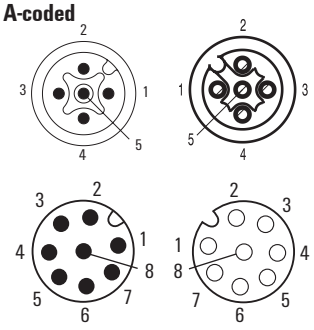
Dimensioned drawing



Dimensioned drawing



M12
SMT
two-piece
shielded
A-coded



Male Female

Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



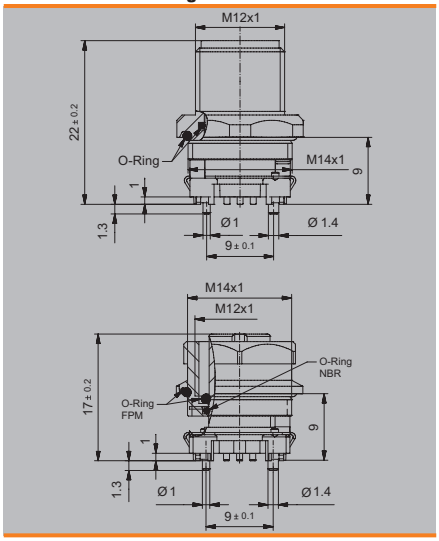
Ordering data

Male, straight	Type	Qty.	Order No.	Type	Qty.	Order No.
4-pole	SAIE-M12S-4S-9/14SMT	25	**2423290000**			
5-pole	SAIE-M12S-5S-9/14SMT	25	**2423320000**			
8-pole	SAIE-M12S-8S-9/14SMT	25	**2423350000**			
Female, straight						
4-pole	SAIE-M12B-4S-9SMT	25	**2422360000**	SAIE-M12B-4S-13/14SMT	25	**2423110000**
5-pole	SAIE-M12B-5S-9SMT	25	**2422390000**	SAIE-M12B-5S-13/14SMT	25	**2423140000**
8-pole	SAIE-M12B-8S-9/14SMT	25	**2423470000**	SAIE-M12B-8S-13/14SMT	25	**2423170000**
Note						

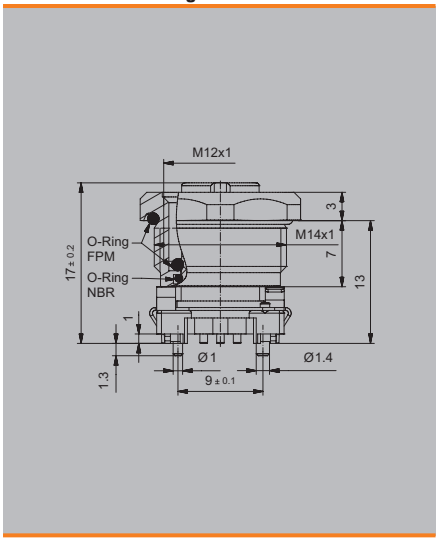
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread	M14	M14
Mounting torque range	1.2 Nm	1.2 Nm
Note		

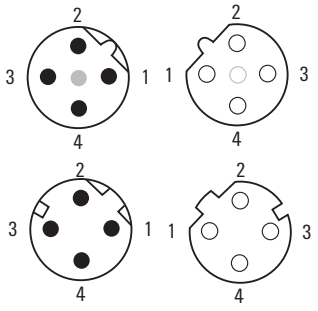
Dimensioned drawing



Dimensioned drawing



M12
SMT
two-piece
shielded



Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



Ordering data

Male, straight			
B-coded, 4-pole	SAIE-M12SB-4S-9SMT	25	**2423800000**
B-coded, 5-pole	SAIE-M12SB-5S-9SMT	25	**2423830000**
Female, straight			
B-coded, 4-pole	SAIE-M12BB-4S-9/14SMT	25	**2423680000**
B-coded, 5-pole	SAIE-M12BB-5S-9/14SMT	25	**2423710000**
D-coded, 8-pole	SAIE-M12BD-4S-9/14SMT	25	**2423860000**
Note			

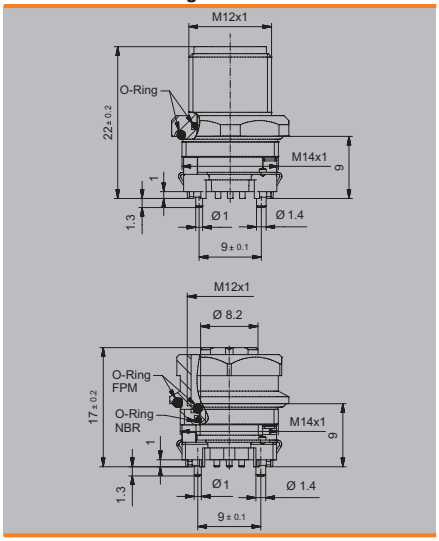
Type	Qty.	Order No.
SAIE-M12BB-4S-13/14SMT	25	**2423740000**
SAIE-M12BB-5S-13/14SMT	25	**2423770000**
SAIE-M12BD-4S-13/14SMT	25	**2423890000**

Technical data

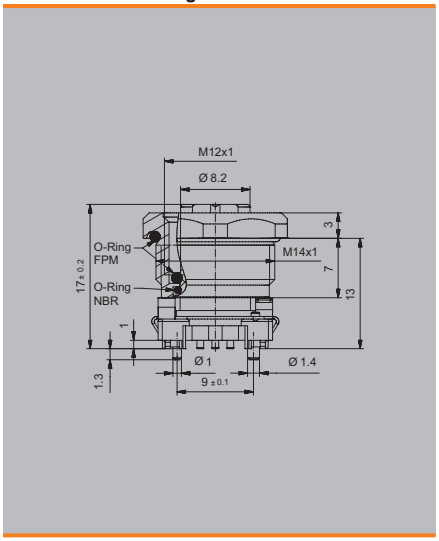
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

250 V (4-pole) / 60 V (5-pole)	
4 A	
-30...80 °C	
IP67	
Au (Gold)	
CuZn, nickel-plated	
M12	
M12: 0.8 Nm	
M14	
1.2 Nm	

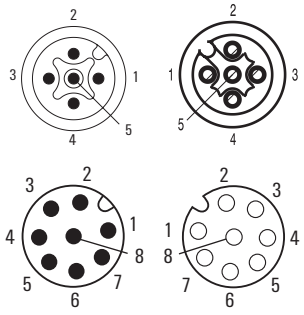
Dimensioned drawing



Dimensioned drawing



M12
SMT
DOM



Male Female

Unshielded



Shielded



Ordering data

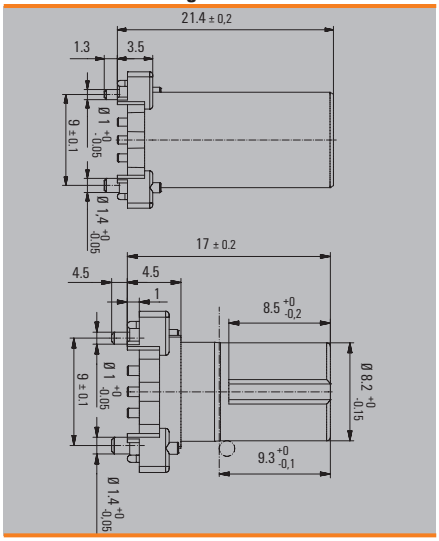
Male, straight	Type	Qty.	Order No.
4-pole	SAID-M12S-4-9SMT	25	2422540000
5-pole	SAID-M12S-5-9SMT	25	2422600000
8-pole	SAID-M12S-8-9SMT	25	2422420000
Female, straight			
4-pole	SAID-M12B-4-9SMT	25	2422060000
5-pole	SAID-M12B-5-9SMT	25	2422120000
8-pole	SAID-M12B-8-9SMT	25	2422480000
Note			

Type	Qty.	Order No.
SAID-M12S-4S-9SMT	25	2423500000
SAID-M12S-5S-9SMT	25	2423560000
SAID-M12S-8S-9SMT	25	2423620000
SAID-M12B-4S-9SMT	25	2422180000
SAID-M12B-5S-9SMT	25	2422240000
SAID-M12B-8S-9SMT	25	2423380000

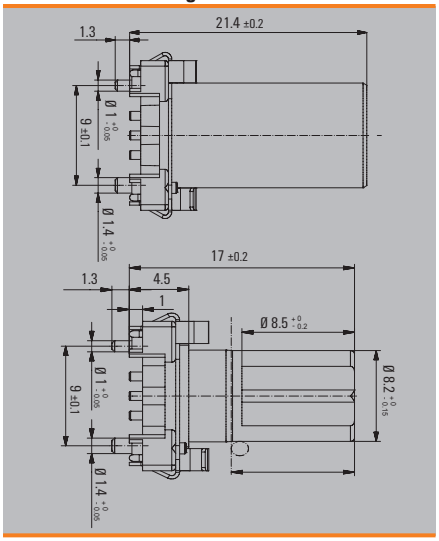
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C	-25...95 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	LCP	LCP
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread		
Mounting torque range		
Note		

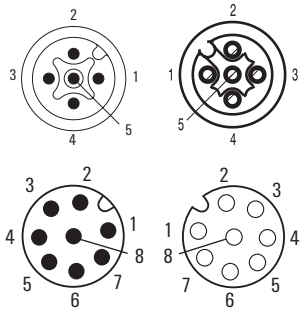
Dimensioned drawing



Dimensioned drawing



M12
SMT
DOM
A-coded



Male Female

Unshielded

Tape-on-Reel



Shielded

Tape-on-Reel



Ordering data

Male, straight				
	4-pole	SAID-M12S-4-9SMT-TR	75	2422570000
	5-pole	SAID-M12S-5-9SMT-TR	75	2422630000
	8-pole	SAID-M12S-8-9SMT-TR	75	2422450000
Female, straight				
	4-pole	SAID-M12B-4-9SMT-TR	75	2422090000
	5-pole	SAID-M12B-5-9SMT-TR	75	2422150000
	8-pole	SAID-M12B-8-9SMT-TR	75	2422510000
Note				

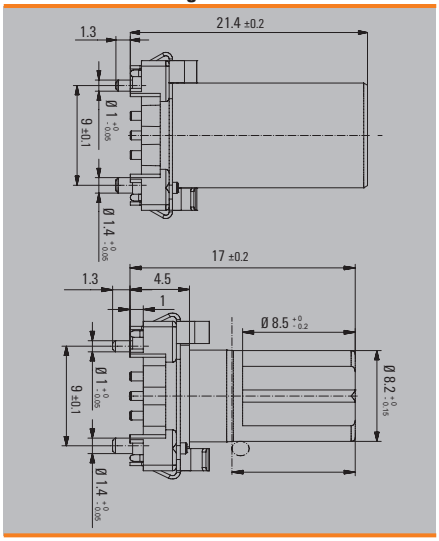
Type	Qty.	Order No.
SAID-M12S-4-9SMT-TR	75	2423530000
SAID-M12S-5S-9SMT-TR	75	2423590000
SAID-M12S-8S-9SMT-TR	75	2423650000
SAID-M12B-4S-9SMT-TR	75	2422210000
SAID-M12B-5S-9SMT-TR	75	2422270000
SAID-M12B-8S-9SMT-TR	75	2423410000

Technical data

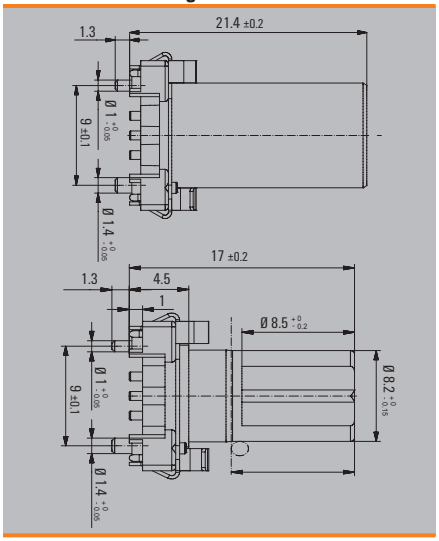
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)	
4 A (4- and 5-pole) / 2 A (8-pole)	
-25...95 °C	
IP67	
Au (Gold)	
LCP	
M12	
M12: 0.8 Nm	

Dimensioned drawing

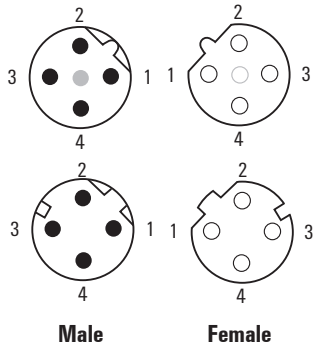


Dimensioned drawing



M12
SMT
DOM
shielded

Shielded





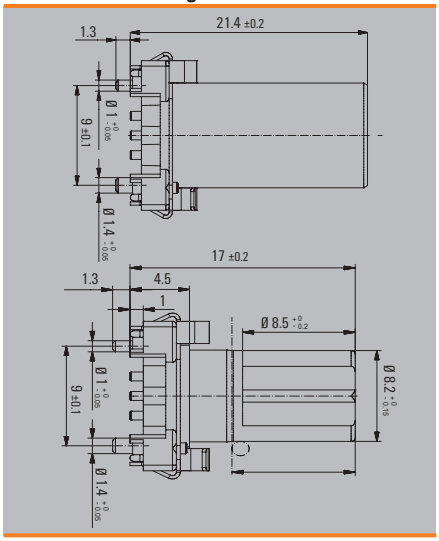
Ordering data

Male, straight			
	B-coded, 4-pole	SAID-M12SB-4S-9SMT	25	**2422720000**
	B-coded, 5-pole	SAID-M12SB-5S-9SMT	25	**2422780000**
Female, straight			
	B-coded, 4-pole	SAID-M12BB-4S-9SMT	25	**2422840000**
	D-coded, 4-pole	SAID-M12BD-4S-9SMT	25	**2422960000**
	B-coded, 5-pole	SAID-M12BB-5S-9SMT	25	**2422900000**
Note				

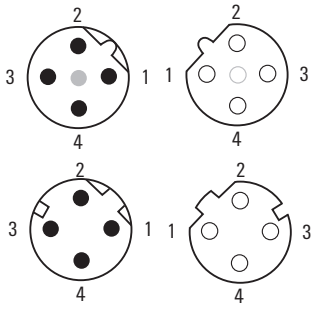
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing



M12
SMT
DOM
shielded



Tape-on-reel





Ordering data

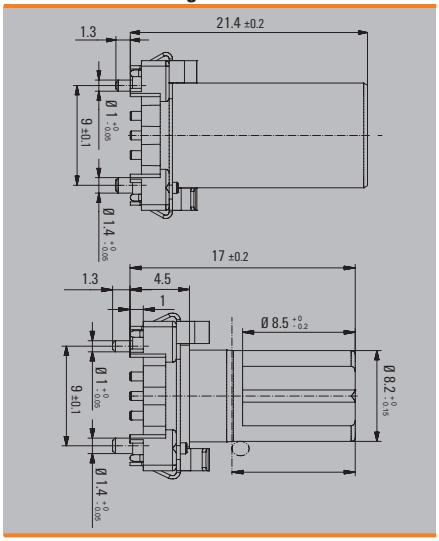
Male, straight			
	B-coded, 4-pole		
	B-coded, 5-pole		
Female, straight			
	B-coded, 4-pole		
	D-coded, 4-pole		
	B-coded, 5-pole		
Note			

Type	Qty.	Order No.
SAID-M12SB-4S-9SMT-TR	75	**2422750000**
SAID-M12SB-5S-9SMT-TR	75	**2422810000**
SAID-M12BB-4S-9SMT-TR	75	**2422870000**
SAID-M12BD-4S-9SMT-TR	75	**2422990000**
SAID-M12BB-5S-9SMT-TR	75	**2422930000**

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing

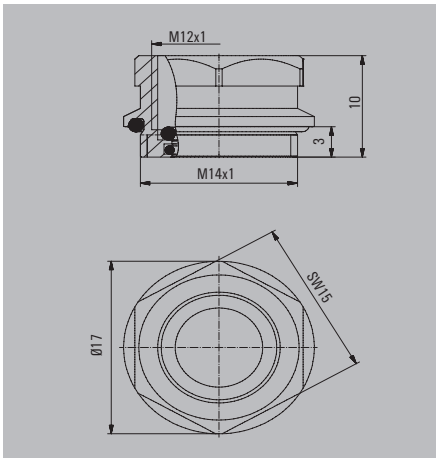


M12
Flange-mounted housing
Hexagon nut

Plug connector

M14 height: 9 mm

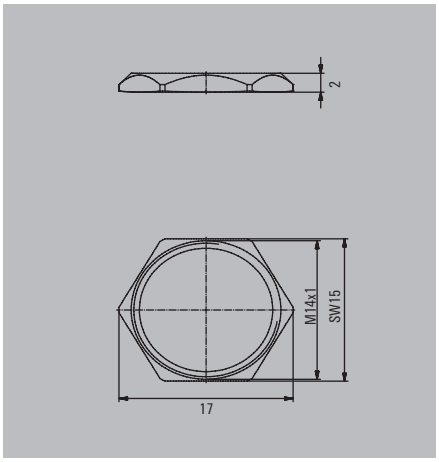




Hexagon nut

M14 distance across flat: 15





Technical data

Housing main material	CuZn	CuZn
Housing surface	nickel-plated	nickel-plated
Seal material	FKM	

Note

Ordering data

Type	Qty.	Order No.
SAIFG-M14X1-S-1	25	**2423980000**

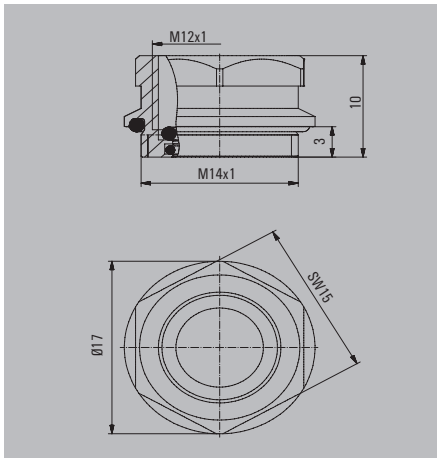
Type	Qty.	Order No.
SAIE-KMM14X1-SW15	25	**2424010000**

Note

Coupling

M14 height: 9 mm





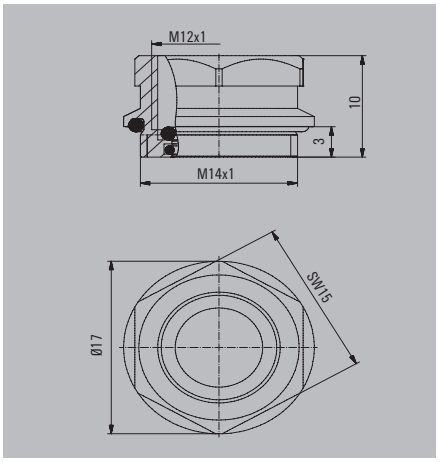
CuZn
nickel-plated
FKM

Type	Qty.	Order No.
SAIFG-M14X1-B-1	25	**2423920000**

Coupling

M14 height: 13 mm



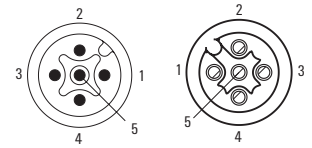


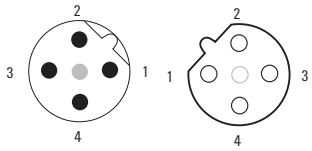
CuZn
nickel-plated
FKM

Type	Qty.	Order No.
SAIFG-M14X1-B-2	25	**2423950000**

M12

Solder cup





Male Female

Rear panel mounting





Front mounting





Ordering data

Male, straight	
	A-coded, 5-pole
	B-coded, 4-pole
	B-coded, 5-pole
Note	

Type	Qty.	Order No.
SAIE-M12S-4A-H-LK	10	**2424210000**
SAIE-M12S-5B-H-LK	10	**2424240000**

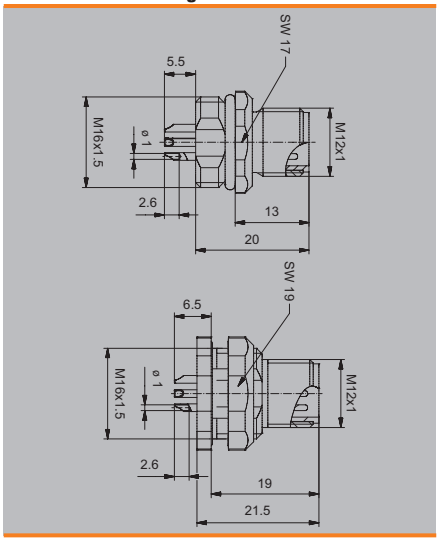
Type	Qty.	Order No.
SAIE-M12S-5A-F-LK	10	**2424160000**
SAIE-M12S-4B-F-LK	10	**2424180000**

Technical data

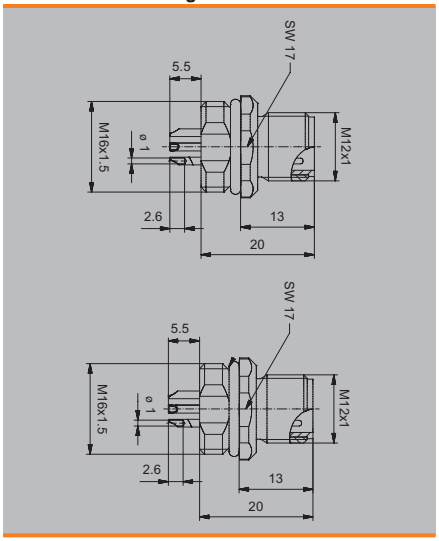
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
Connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

250 V (4-pole) / 60 V (5-pole)	
4 A	
-30...80 °C	
IP67	
Au (Gold)	
CuZn, nickel-plated	
M12	
M12: 0.8 Nm	
M16	
1.2 Nm	

Dimensioned drawing



Dimensioned drawing



M12
Solder cup
Square flange

Enclosure size 20 mm





Enclosure size 26 mm





Ordering data

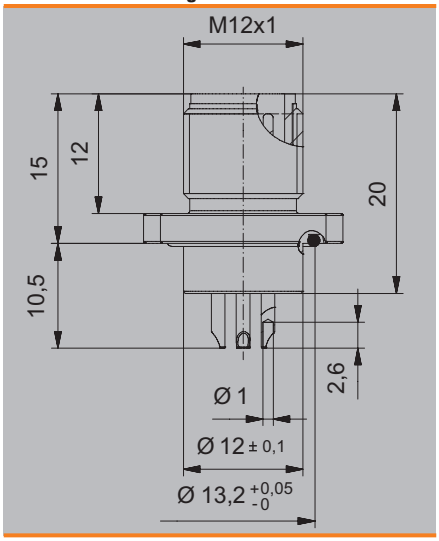
Male, straight	Type	Qty.	Order No.
A-coded, 4-pole			
A-coded, 5-pole	SAIE-M12S-5A-FV-20-LK	10	**2424270000**
B-coded, 4-pole	SAIE-M12S-4B-FV-20-LK	10	**2424310000**
Note			

Type	Qty.	Order No.
SAIE-M12S-4A-FV-26-LK	10	**2424340000**
SAIE-M12S-5A-FV-26-LK	10	**2424370000**
SAIE-M12S-4B-FV-26-LK	10	**2424400000**

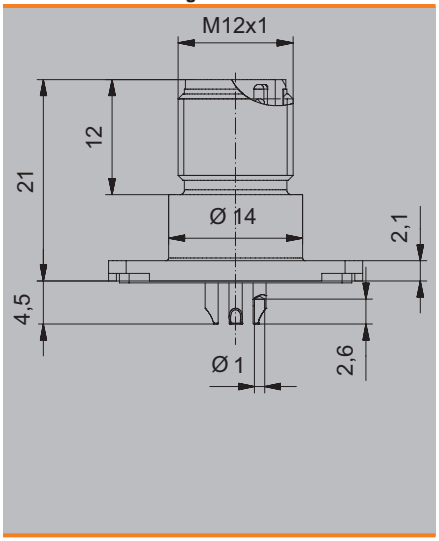
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A	4 A
Temperature range	-30...80 °C	-30...80 °C
Protection degree	IP67	IP67
Contact surface	Au (Gold)	Au (Gold)
Housing main material	CuZn, nickel-plated	CuZn, nickel-plated
Connection thread	M12	M12
Tightening torque	M12: 0.8 Nm	M12: 0.8 Nm
Mounting thread		
Mounting torque range		
Note		

Dimensioned drawing



Dimensioned drawing



SAI empty housing

SAI empty housing	The Art of Making the Right Choice	J.2
	The advantages at a glance	J.4
	Technical description of individual components	J.5
	Ordering data	J.6
	Technical Information	J.11
	Assembly steps for the SAI Universal Housing Set	J.12
	SAI AU Housing Types	J.13
	Drawings	J.14

The Art of Making the Right Choice

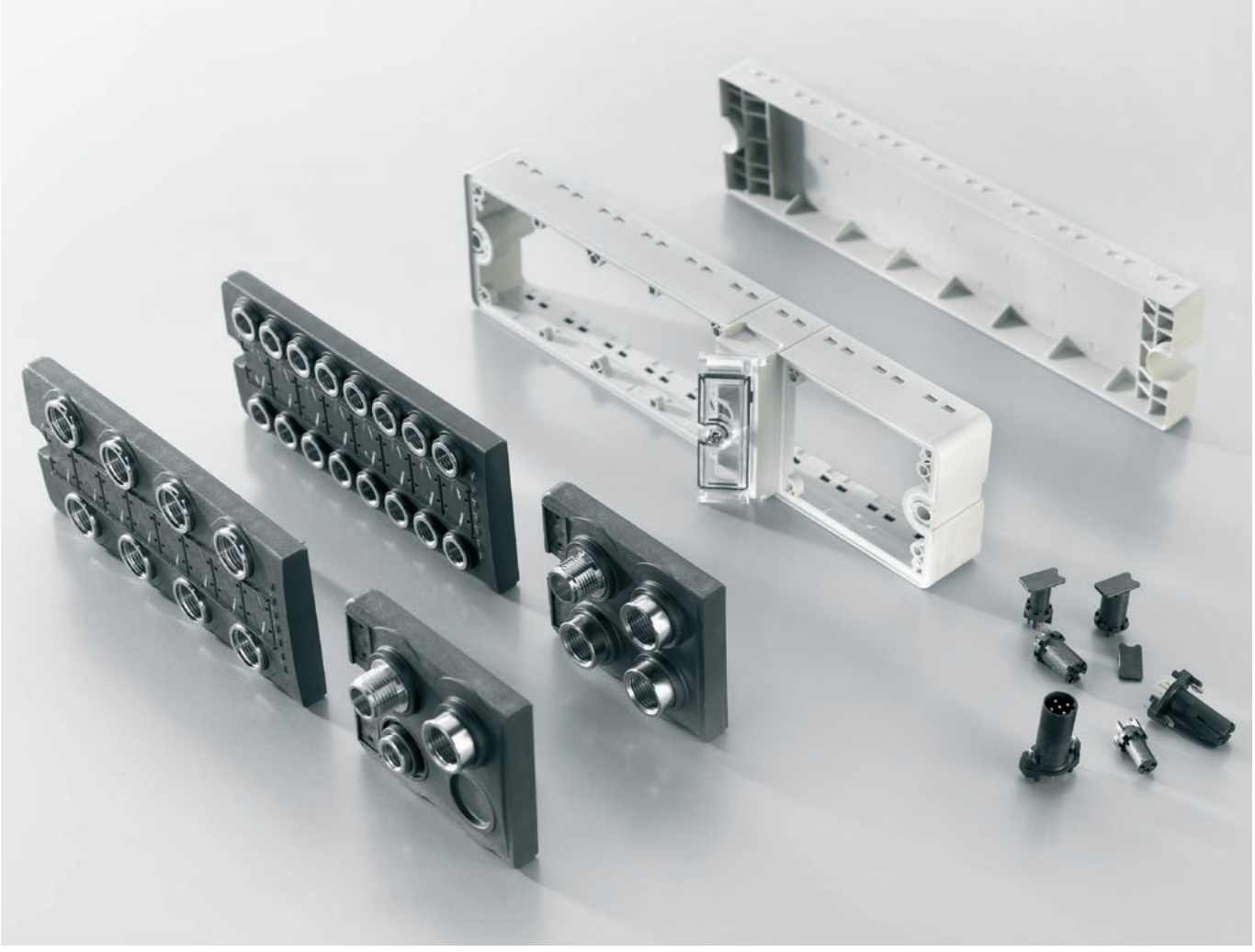
There are numerous types of electronics housings available for the mounting rail with IP 20 protection. This opens up a whole range of options for users. The situation is completely different, however, when working with IP 67. Here the persistent question is how to keep liquids and dusts from penetrating the housing. Many product rely on encapsulation for this protection. When used daily, this is not problematic. But for small batches and for productions where encapsulation is not carried out daily, this technique can present a real obstacle.

Therefore Weidmüller has developed a housing range with absolutely no encapsulation. This also offers the option of using the circuit boards in reflow soldering since the required M12s are available as tray-packaged THT parts.

In the event of problems with the electronic circuitry after assembly, the housing can be re-opened to search for possible causes on the PCB.

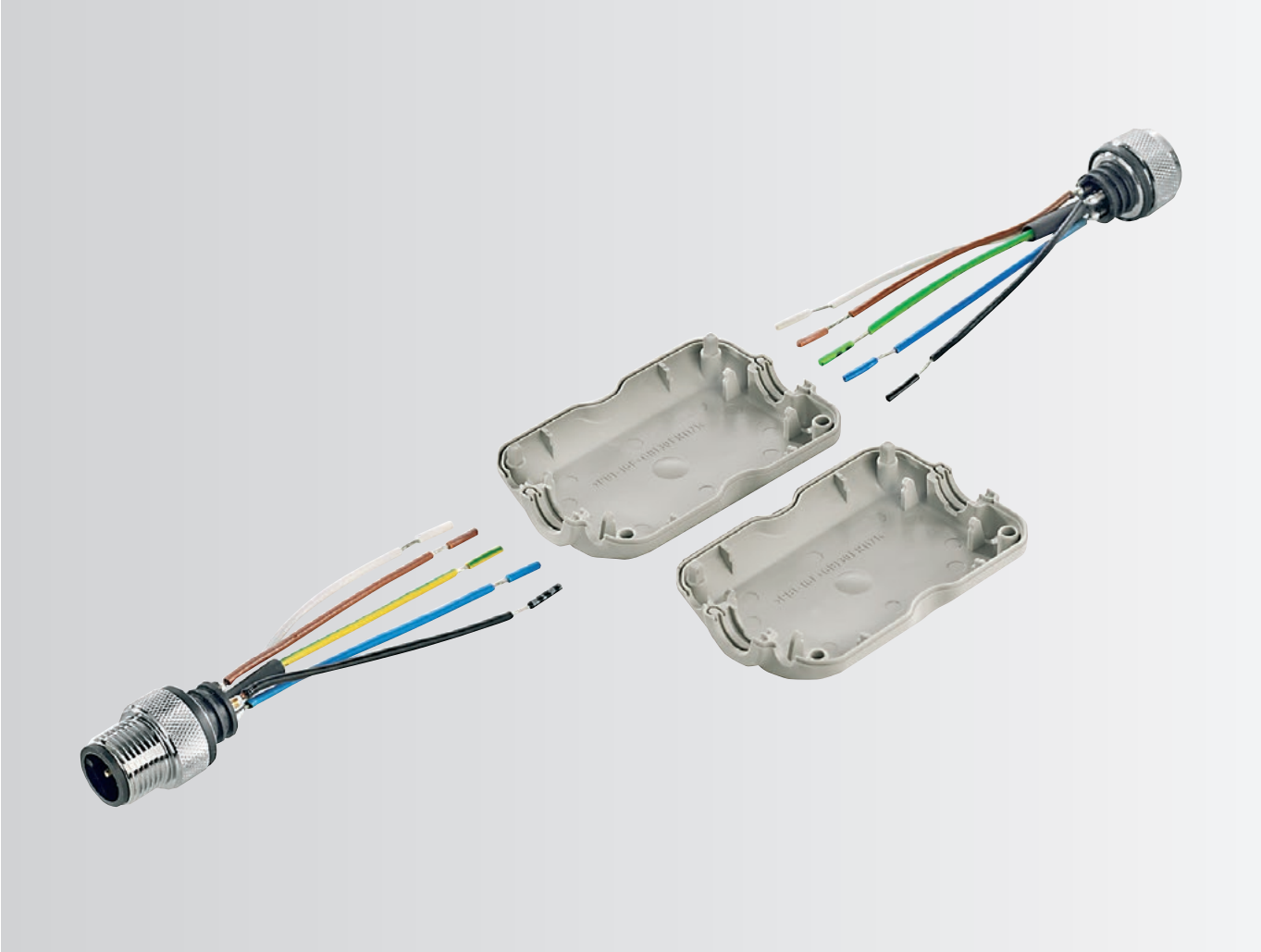
The modules are only 54 mm wide and are normally supplied with 8 x M12 connectors along one side. On the bus and supply sides 4 connectors may be fitted. Both areas are separated with a transparent cover which allows settings to be made after they have been assembled.

It is worth highlighting the M12 Reflow-capable PCB plug-in connectors, which can be used in a sustained operating temperature of 105 °C. These are also available individually for use in an individually designed housing application.



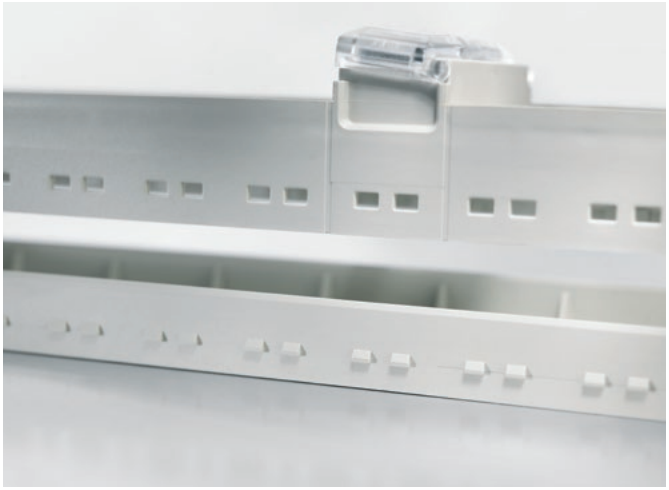
Another variant consists of a small housing with two M12 connectors. Here small switches can be integrated easily to adapt to existing levels and the M12 connectors are already included. The housing is packed as a set with 100 pieces. The price refers to a set with 100 equal parts.

If these housing solutions do not offer a viable solution for the required application, Weidmüller may offer a customised housing. With our years of experience, we can even offer an affordable solution for low volume orders. How is this achieved? Please feel free to ask!



The advantages at a glance

Non-encapsulated housing
- Easy to assemble
- No encapsulation equipment needed
- Recyclable
- Disassembly for testing is possible



M8/M12 connector
- Reflow-compatible I/O plug-in connector
- High long-term-use temperature
- I/O plug in tray
- M12 available with different coding

Material
- Housing material laser-compatible PBT. This material is very resistant and sturdy
- Threaded rings: nickel-plated brass – for secure attachment
- Machined, gold-plated contact – for high current capacity



Service
- Housings can also be ordered as a set
- They can be laser-inscribed before delivery

Components
- M12 and M8 connectors can also be ordered individually for use in your custom-designed housings

Housings
- Light-guide rods are integrated into cover
- Mounting holes on top and side
- Address chamber can be illuminated
- Housings available in black or grey

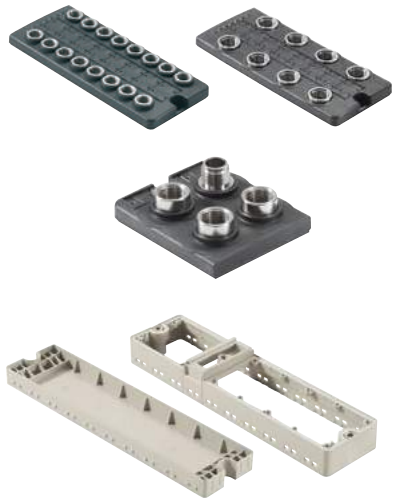


Technical description of individual components

It is possible to assemble three different housing types together. These variants have different widths and lengths.
The first housing is 54 mm wide and 210.5 mm long. The second and third housing is always 30 mm wide and 155.5 mm or 180.5 mm long.

The following individual components are always required:

54 mm



Designation
One frame
One base
One I/O cover
One bus/supply cover
One Functional Earth plate
One address cover
One address cover screw
Ten circuit board screws

30 mm short shape



Designation
One frame
One base
One cover
One Functional Earth plate
Six circuit board screws

30 mm long shape



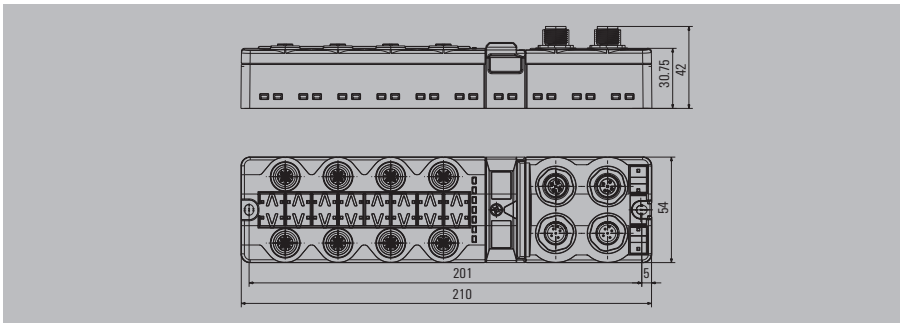
Designation
One frame
One base
One cover
One Functional Earth plate
Six circuit board screws

Added to this is the corresponding number of plug-in connector inserts. The quantity should be coordinated with the respective covers - with the I/O covers each requires different M12 plug-in connectors.

Note: Presses for pushing in the bottom are available on request.

SAI empty housing

Ordering data



54 mm

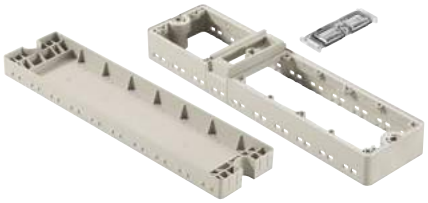
I/O cover

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
M12	SAI GHDE EA 8M12	25	1246490000
M12 shielded	SAI GHDE EA 8M12 SIBL	25	1246510000
M8	SAI GHDE EA 16M8 0.SIBL	25	1246520000

Frame, address flap, screw for address flap, floor, shield panel



Designation	Type	Qty.	Order No.
M12 shielded	SAI RA 54 KU	25	1246530000
Address cover	SAI AD 54	50	1966170000
Screw for address cover	SAI BFSC M3x10	1	4310920000
Base	SAI BP 54 KU	50	1966190000
Functional earth plate	SAI SIBL GH	250	1966200000

LP screws



Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

bus/supply cover, short

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
4 M12, 1 male, 3 female	SAI GHDE 4M12 1S3B	25	1246560000

You can find all variants on G.8

O-rings for female sockets



Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

M12 plug I/O

Packaged in tray / reflow compatible



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

Ordering data

M8 plug I/O



Designation	Type	Qty.	Order No.
Female M8 3 pole	B KOTR M8 3P BU SAI	360	**2332380000**

M12 plug, bus/supply side, short



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole shielded	B KOTR B M12 5POL A BU	220	**2350600000**
Male A-Keyway 5 pole shielded	B KOTR B M12 5POL A SF	220	**2350610000**
Female B-Keyway 5 pole shielded	B KOTR B M12 5POL B BU	220	**2350620000**
Male B-Keyway 5 pole shielded	B KOTR B M12 5POL B SF	220	**2350630000**
Female D-Keyway 4 pole shielded	B KOTR B M12 4POL D BU	220	**2350590000**

M8 plug, bus/supply side, short



Designation	Type	Qty.	Order No.
Female 4 poles shielded	B KOTR BUS M8 4POL BU	220	**2350640000**

Threaded bushings

Designation	Type	Qty.	Order No.
Male M12	GWHUE BUS M12 SF SAI	1	**4322760000**
Female M12	GWHUE BUS M12 BU SAI	1	**4322750000**

SET



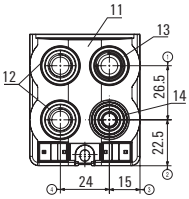
Designation	Type	Qty.	Order No.
M12 standard	SAI-AU ET SET M12 A COD	1	**1235340000**

SAI empty housing

Ordering data

I/O cover (3M12 | 2 pin, 1 socket // 1M8 | 1 socket)

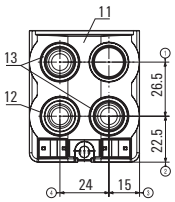




Type	Qty.	Order No.
SAI GHDE 3M12 1M8 SAI	25	1246540000

I/O cover (3M12 | 1 pin, 2 socket)

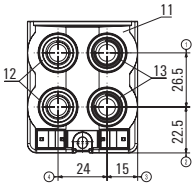




Designation	Qty.	Order No.
SAI GHDE 3M12 1S2B	25	1246550000

LP I/O cover (4M12 | 2 pin, 2 socket)

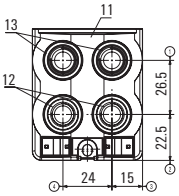




Designation	Qty.	Order No.
SAI GHDE 4M12 2S2B	25	1246570000

I/O cover (4M12 | 2 pin, 2 socket, turned)

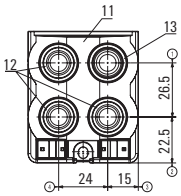




Designation	Qty.	Order No.
SAI GHDE 4M12 2X1S1B	25	1246580000

I/O cover (4M12 | 3 pin, 1 socket)

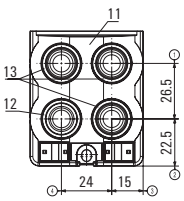




Designation	Qty.	Order No.
SAI GHDE 4M12 3S1B	25	1246590000

I/O cover (4M12 | 1 pin, 3 socket)

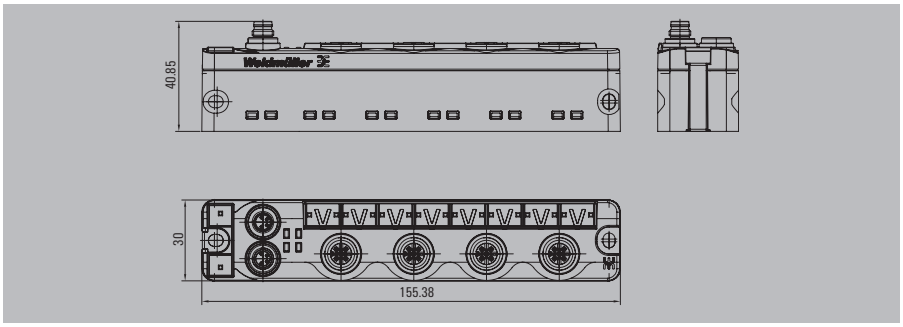




Designation	Qty.	Order No.
SAI GHDE 4M12 1S3B	25	1246560000

Hinweis: Presse zum Eindrücken des Bodens auf Anfrage erhältlich.

Ordering data



30 mm short version

Cover

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
M12	SAI GHDE 30 S KU M12	20	1246810000
M12 shielded	SAI GHDE 30 S KU SI	20	1246820000
M8	SAI GHDE 30 S KU M8	20	1246830000

Frame, floor



Designation	Type	Qty.	Order No.
Frame	SAI RA 30 SB KU	20	1246660000
Base	SAI BP 30 SB KU	20	1246840000

LP screws



Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

O-rings for female socket



Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

M12 plug I/O



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

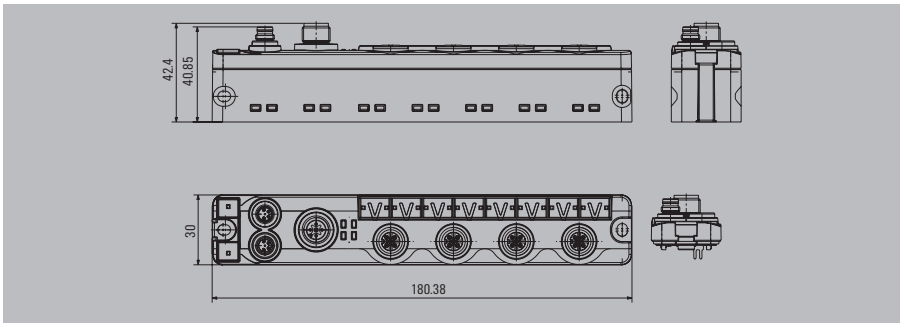
bus/supply plug



Designation	Type	Qty.	Order No.
Female M8 4 pole	B KOTR BUS M8 4POL BU	220	2350640000
Male M8 4 pole	B KOTR BUS M8 4POL SF	220	2350650000

J

Ordering data



30 mm long version

Cover

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
M12	SAI GHDE 30 SB LA M12	20	1246670000
M12 shielded	SAI GHDE 30 SB LA SIBL	20	1246680000
M8	SAI GHDE 30 SB LA M8	20	1246690000

Frame, floor



Designation	Type	Qty.	Order No.
Frame	SAI RA 30 SB LA	20	1246720000
Base	SAI BP 30 SB LA	20	1246710000

LP screws



Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

O-rings for female socket



Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

M12 plug I/O



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

bus/supply plug



Designation	Type	Qty.	Order No.
Female M8 4 pole	B KOTR BUS M8 4POL BU	220	2350640000
Male M8 4 pole	B KOTR BUS M8 4POL SF	220	2350650000
Male M12 A-Keyway 5 pole	B KOTR B M12 5POL A SF	220	2350610000

Technical Information

O-rings
These are required for the M12 and M8 sockets when establishing a seal in compliance with IP 67. O-rings are required for the female sockets but not for the male plugs.

Press
You will need a tool that can press the base in and close the housing without damaging it. Such a tool can be ordered through Weidmüller.

Cover
The covers are fitted with either M12 or M8 threaded nuts. The corresponding inserts must be ordered separately.

Connectors in tray
The I/O inserts are packaged and delivered in a tray. This makes them compatible with automatic placement processes.
All connector inserts offered in this product line can be reflow soldered.
The bus/supply inserts connectors are packaged and delivered in a box. They can also be reflow soldered.

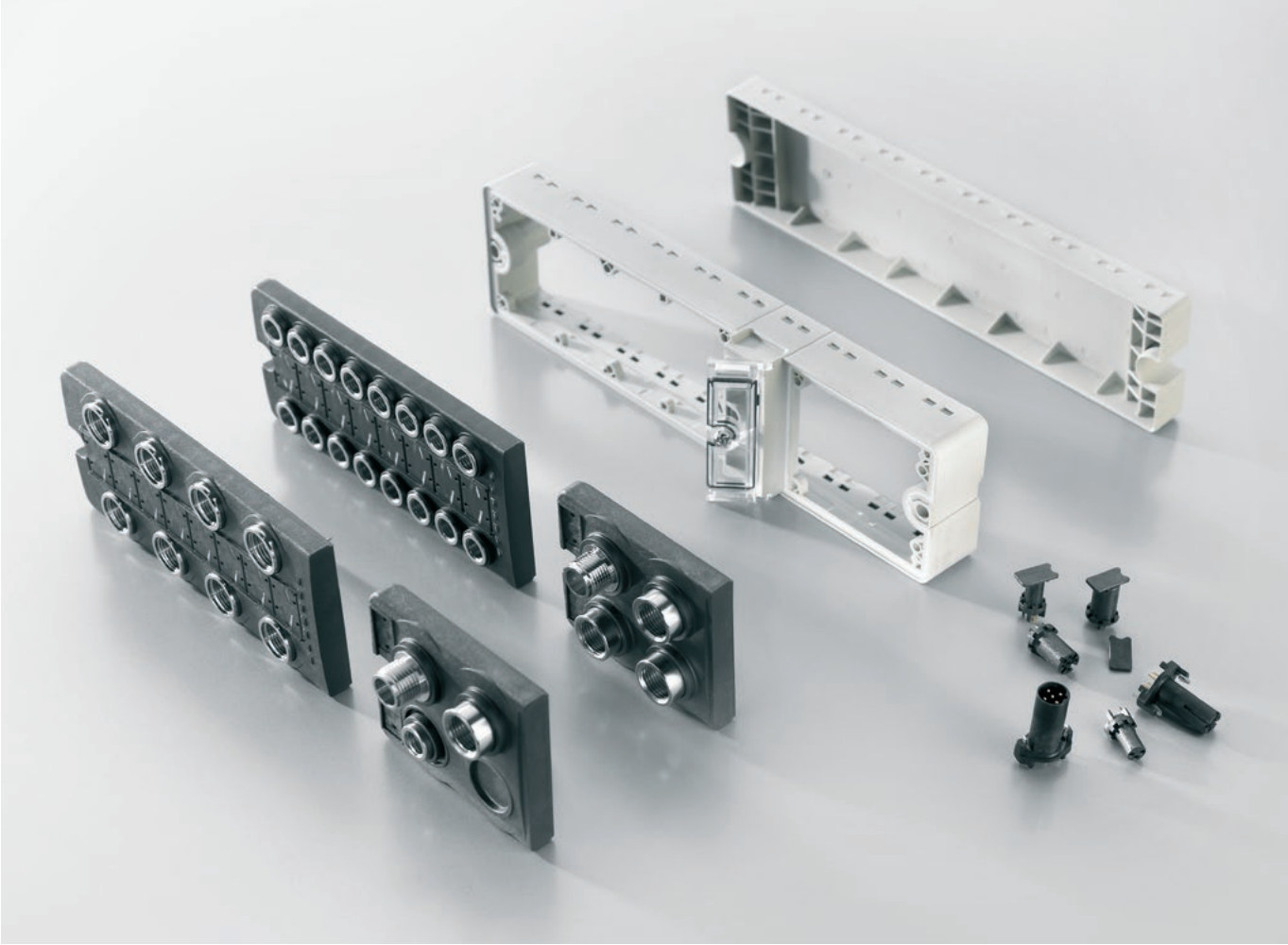
Circuit board screws
The circuit board screws are self-cutting screws. Be sure, during assembly, to tighten the screws in the specified order. Ten screws are needed for each circuit board in the 54 mm housings. Six screws are needed per board in the 30 mm housings.

Sample housings
The Set article number can be used to order a 54 mm housing along with sufficient components for building a complete module. This is suitable for samples or small batches. A set consists of the following components:
One I/O cover, bus/supply cover, address cover, screw for address cover, Functional Earth plate, frame, base, eight M12 A-Keyway female sockets, 10 M12 O-rings, two M12 A-Keyway female sockets, two M12 male A-Keyway as bus/supply plug.

Colour
Housing parts can be ordered in either grey or black. The article numbers here specify the grey frame, grey base and black cover.

Print
Customised printing is also possible on request. The inscription is made with a laser.

Assembly steps for the SAI Universal Housing Set

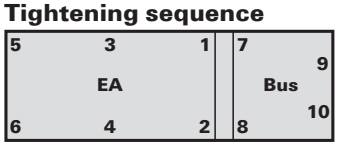


❶ Assemsling the frames and covers

Assembly steps
Position the frame with I/O cover and the bus/supply cover in the holder. Snap the printed circuit board in the frame and screw it together with housing **(be sure to maintain the proper torque and tightening sequence).**

Screw torque: 0.6 Nm

Tightening sequence



❷ Snap in the housing base

Assembly steps
Use a press to snap the housing base into the housing frame.

❸ Final assembly

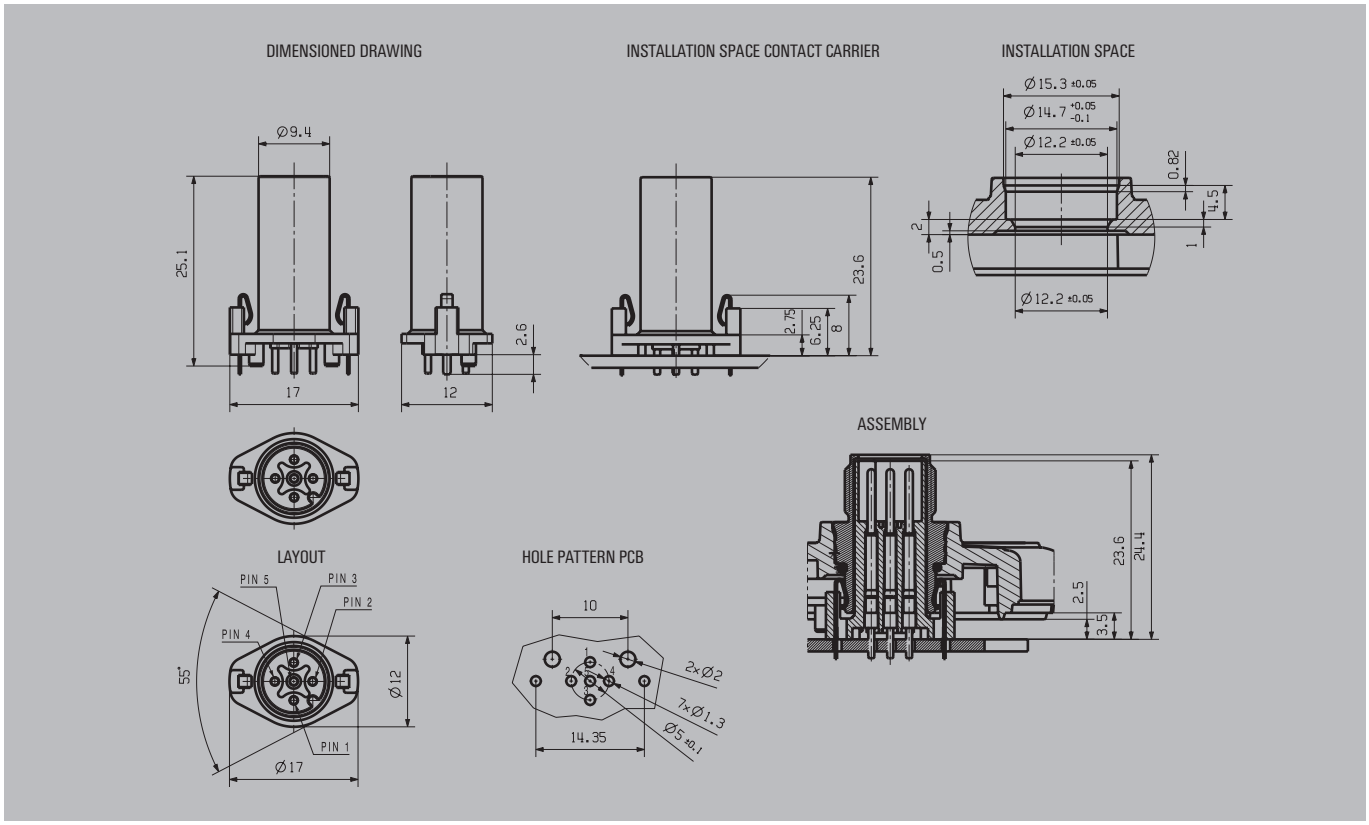
Assembly steps
1. Snap on the transparent cover
2. Screw on with 0.5 Nm torque
3. Attach the O-rings with a press
4. Snap on the Functional Earth plate
5. Add accessories (Multicard, protective caps, package inserts)

SAI AU Housing Types

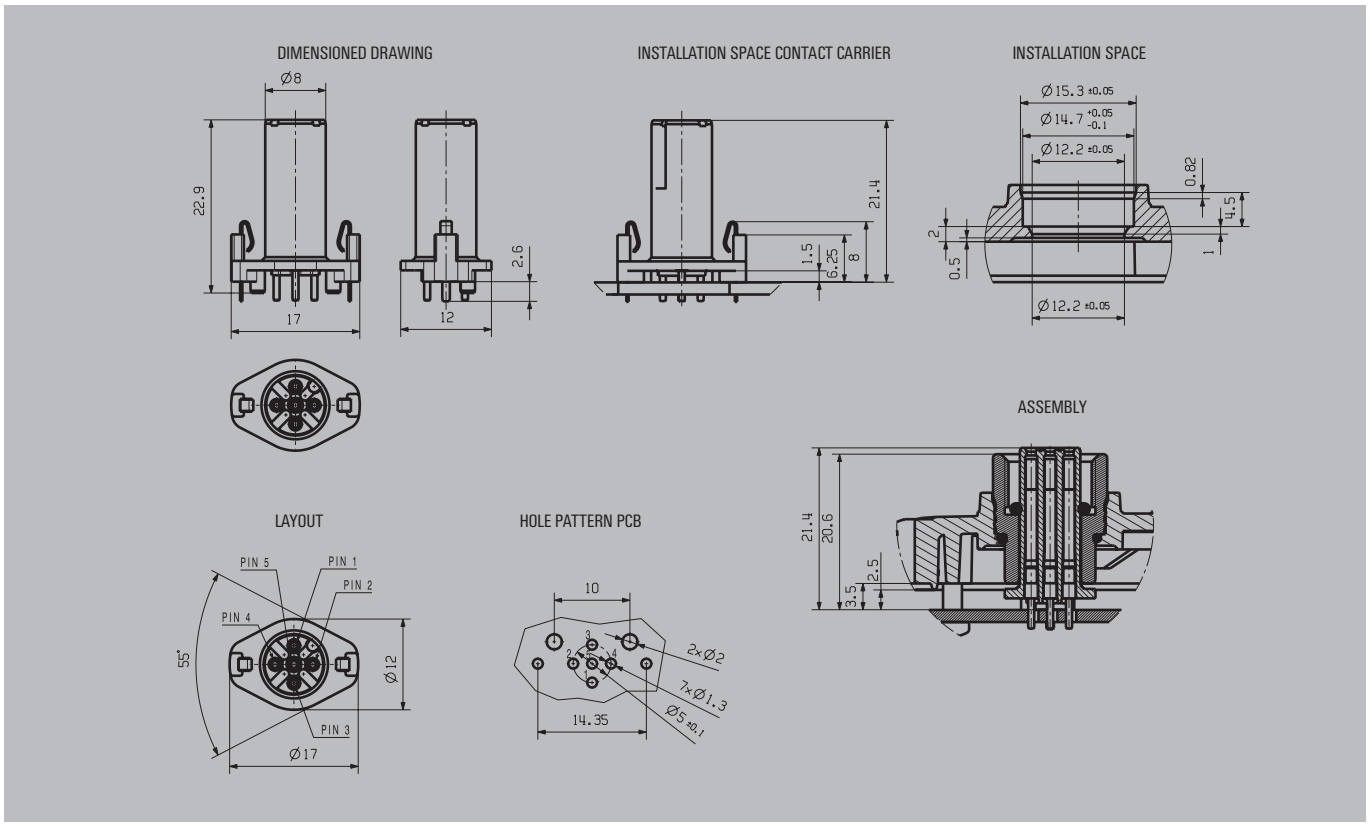
SAI empty housing

Type	Designation 54 mm	Order No.	Type	Qty.
I/O cover	M12	1246490000	SAI GHDE EA 8M12	25
	M12 shielded	1246510000	SAI GHDE EA 8M12 SIBL	25
	M8	1246520000	SAI GHDE EA 16M8 0.SIBL	25
Frame set	Frame, address cover, screw for address cover, base			
	Frame	1246530000	SAI RA 54 KU	25
	Address cover	1966170000	SAI AD 54	50
	Corresponding screw	4310920000	SAI BFSC M3x10	1
	Base	1966190000	SAI BP 54 KU	50
	Functional Earth Plate	1966200000	SAI SIBL GH	250
PCB screws		1966180000	SAI BFSC M3x10	1000
Bus/supply cover	3 M12, 1 M8	1246540000	SAI GHDE 3M12 1M8 SAI	25
	3 M12 1 male, 2 female	1246550000	SAI GHDE 3M12 1S2B	25
	4 M12, 1 male 3 female	1246560000	SAI GHDE 4M12 1S3B	25
	4 M12, 2 male, 2 female	1246570000	SAI GHDE 4M12 2S2B	25
	4 M12 2X 1 male, 1 female	1246580000	SAI GHDE 4M12 2X1S1B	25
	4 M12 3 male, 1 female	1246590000	SAI GHDE 4M12 3S1B	25
	3 M12 1 PG9	1246610000	SAI GHDE 3M12 1PG9	25
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
M8 connector I/O		2332380000	B KOTR M8 3P BU SAI	360
M12 connector, bus/supply cover side	Female A-Keyway 5 pole	2350600000	B KOTR B M12 5POL A BU	220
	Male A-Keyway 5 pole	2350610000	B KOTR B M12 5POL A SF	220
	Female B-Keyway 5 pole shielded	2350620000	B KOTR B M12 5POL B BU	220
	Male B-Keyway 5 pole shielded	2350630000	B KOTR B M12 5POL B SF	220
	Female D-Keyway 4 pole shielded	2350590000	B KOTR B M12 4POL D BU	220
M8 connector	Female 4 pole shielded	2350640000	B KOTR BUS M8 4POL BU	220
SET	M12 standard	1235340000	SAI-AU ET SET M12 A COD	
Type	**30 mm short**	**Order No.**	**Type**	**Qty.**
Cover	M12	1246810000	SAI GHDE 30 S KU M12	20
	M12 shield	1246820000	SAI GHDE 30 S KU SI	20
	M8	1246830000	SAI GHDE 30 S KU M8	20
Frame set	Base	1246840000	SAI BP 30 SB KU	20
	Frame	1246660000	SAI RA 30 SB KU	20
PCB screws		1966180000	SAI BFSC M3x10	1000
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
	Female M8 4 pole	2350640000	B KOTR BUS M8 4POL BU	220
	Male M8 4 pole	2350650000	B KOTR BUS M8 4POL SF	220
Type	**30 mm long**	**Order No.**	**Type**	**Qty.**
Cover	M12	1246670000	SAI GHDE 30 SB LA M12	20
	M12 shielded	1246680000	SAI GHDE 30 SB LA SIBL	20
	M8	1246690000	SAI GHDE 30 SB LA M8	20
Frame set	Base	1246710000	SAI BP 30 SB LA	20
	Frame	1246720000	SAI RA 30 SB LA	20
PCB screws		1966180000	SAI BFSC M3x10	1000
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 4 pole			
	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
	Female M8 4 pole	2350640000	B KOTR BUS M8 4POL BU	220
	Male M8 4 pole	2350650000	B KOTR BUS M8 4POL SF	220
	Male M12 A-Keyway 5 pole	2350610000	B KOTR B M12 5POL A SF	220

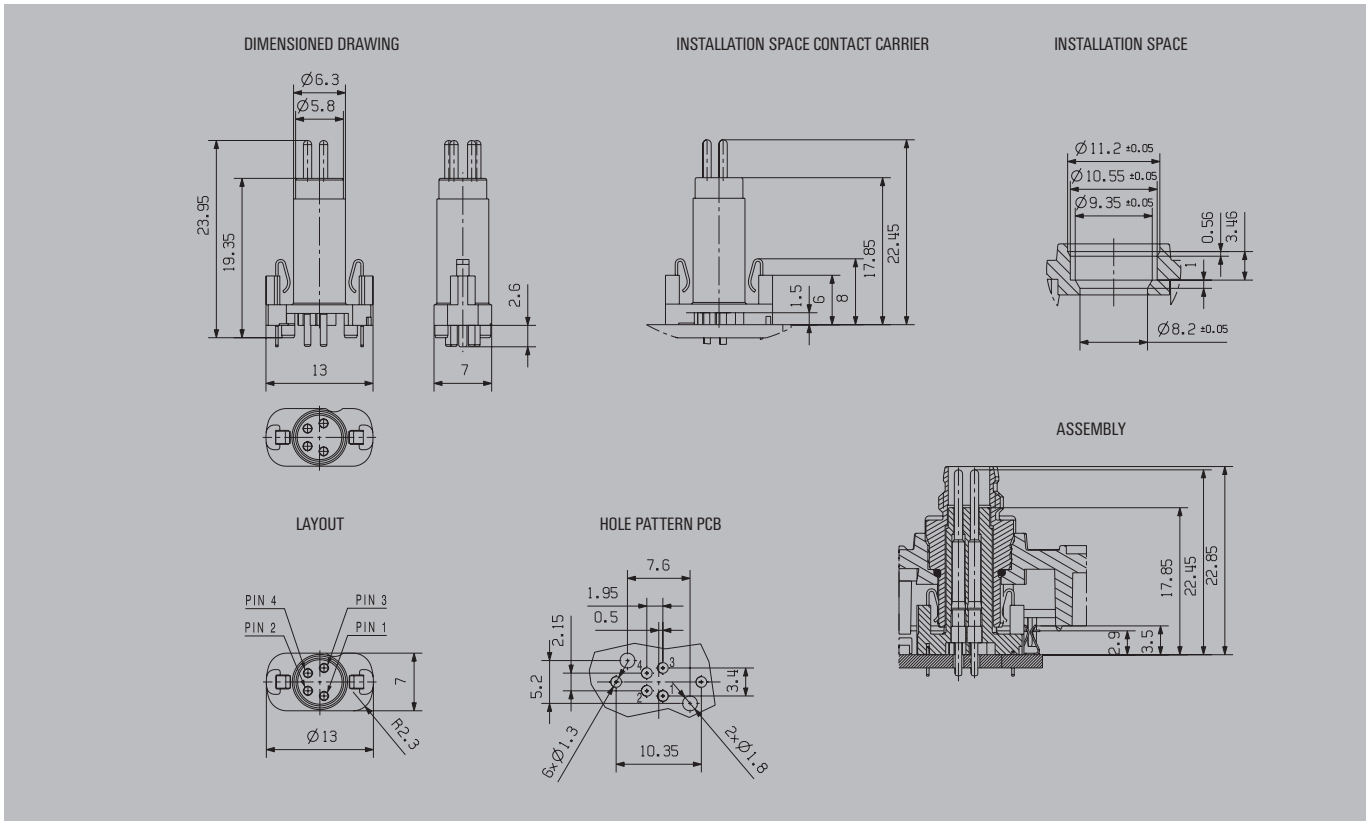
I/O connector, plug M12



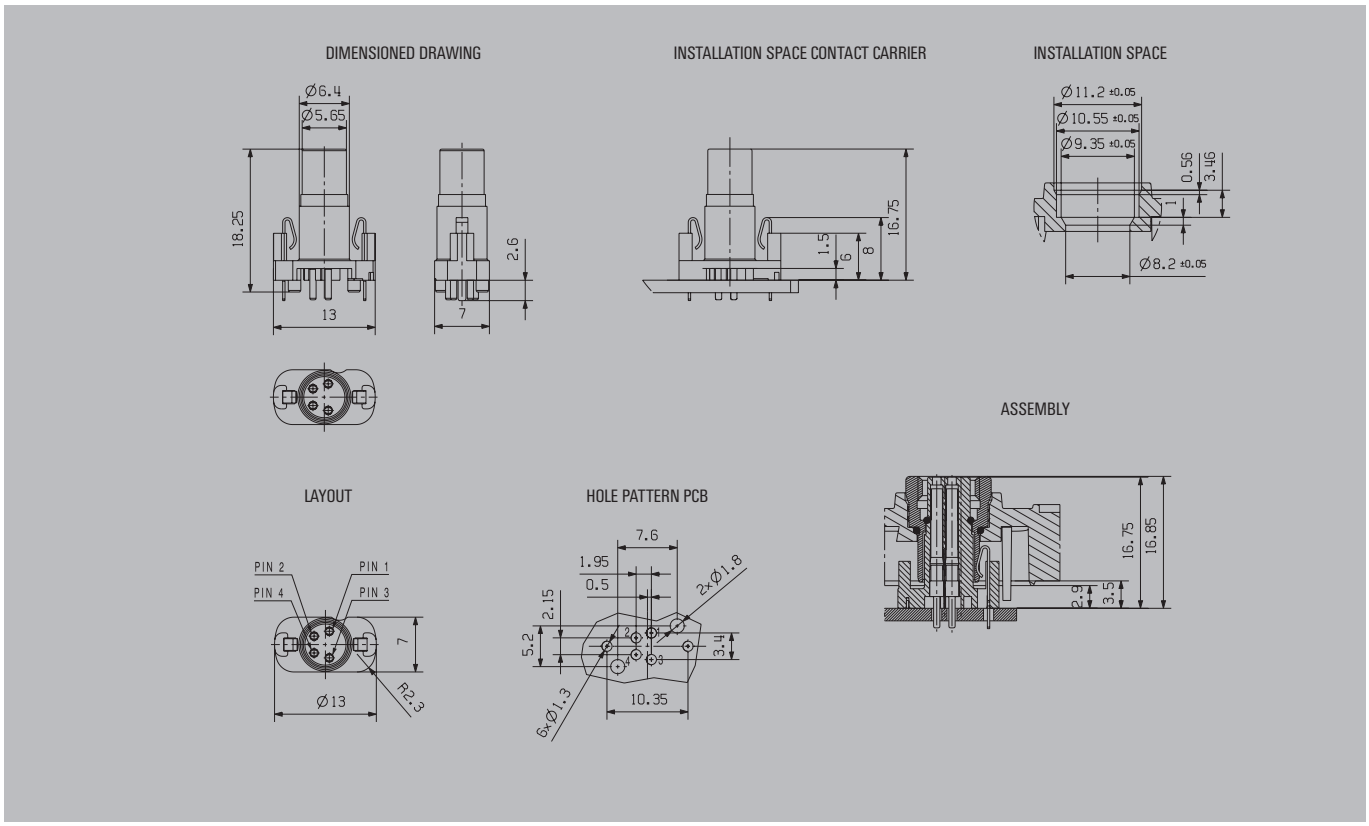
I/O plug socket M12



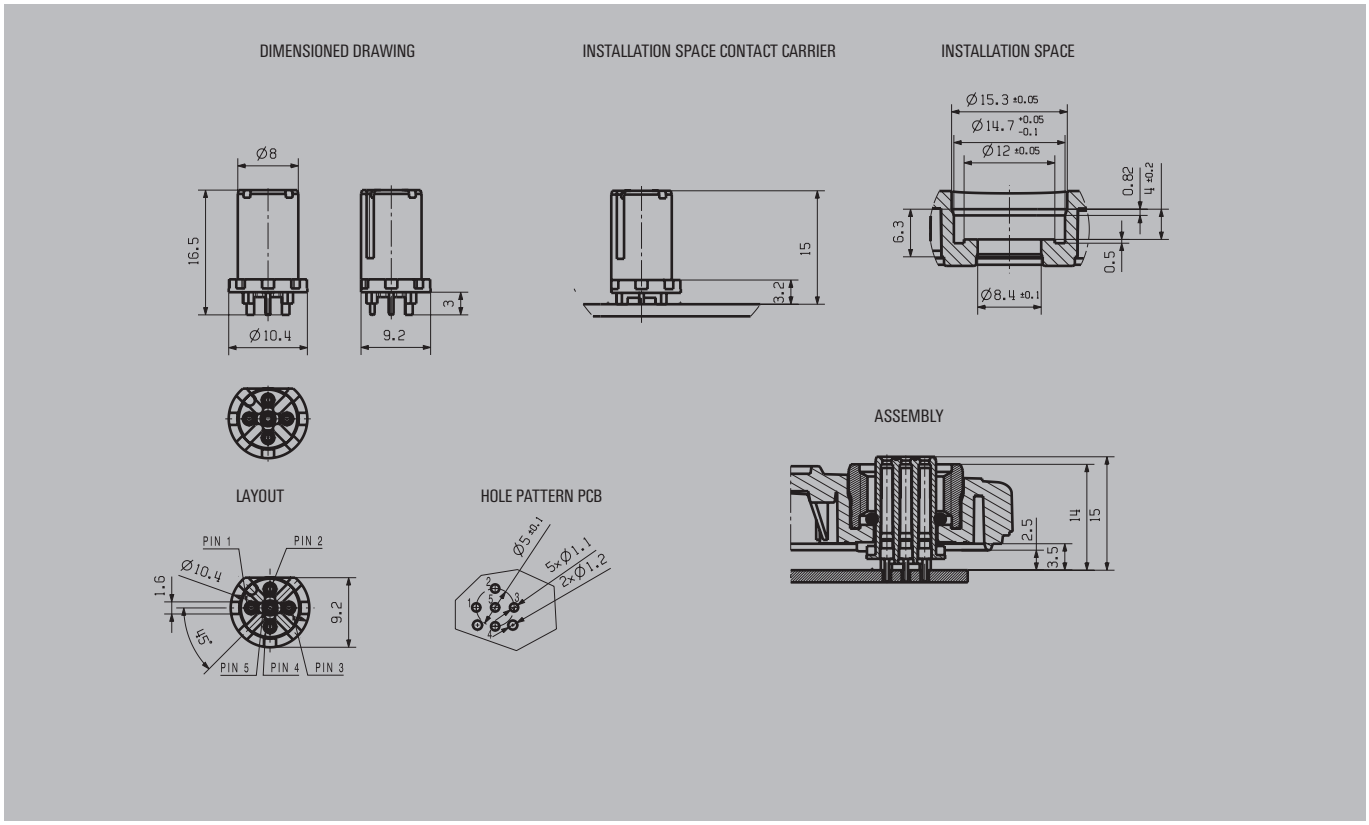
I/O plug pin M8



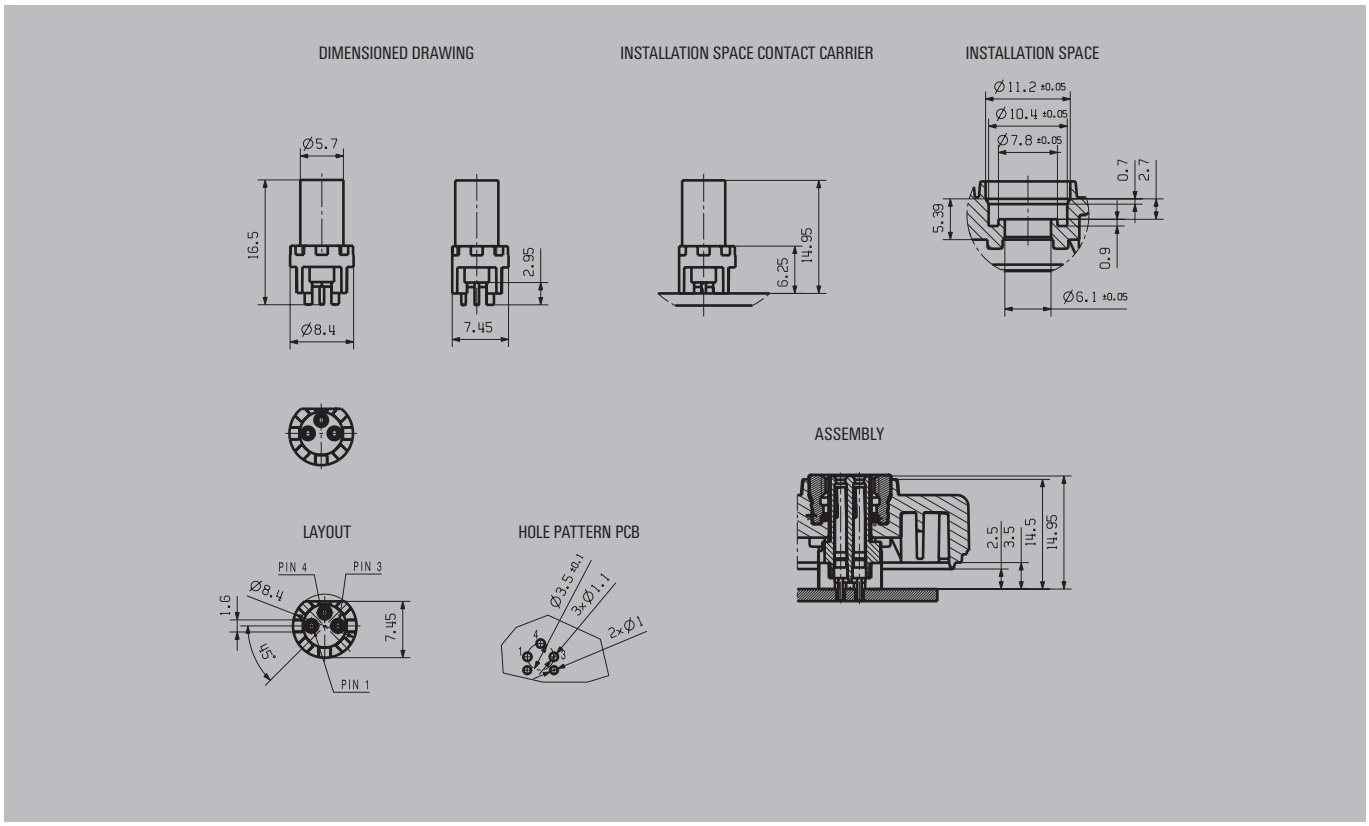
I/O plug socket M8



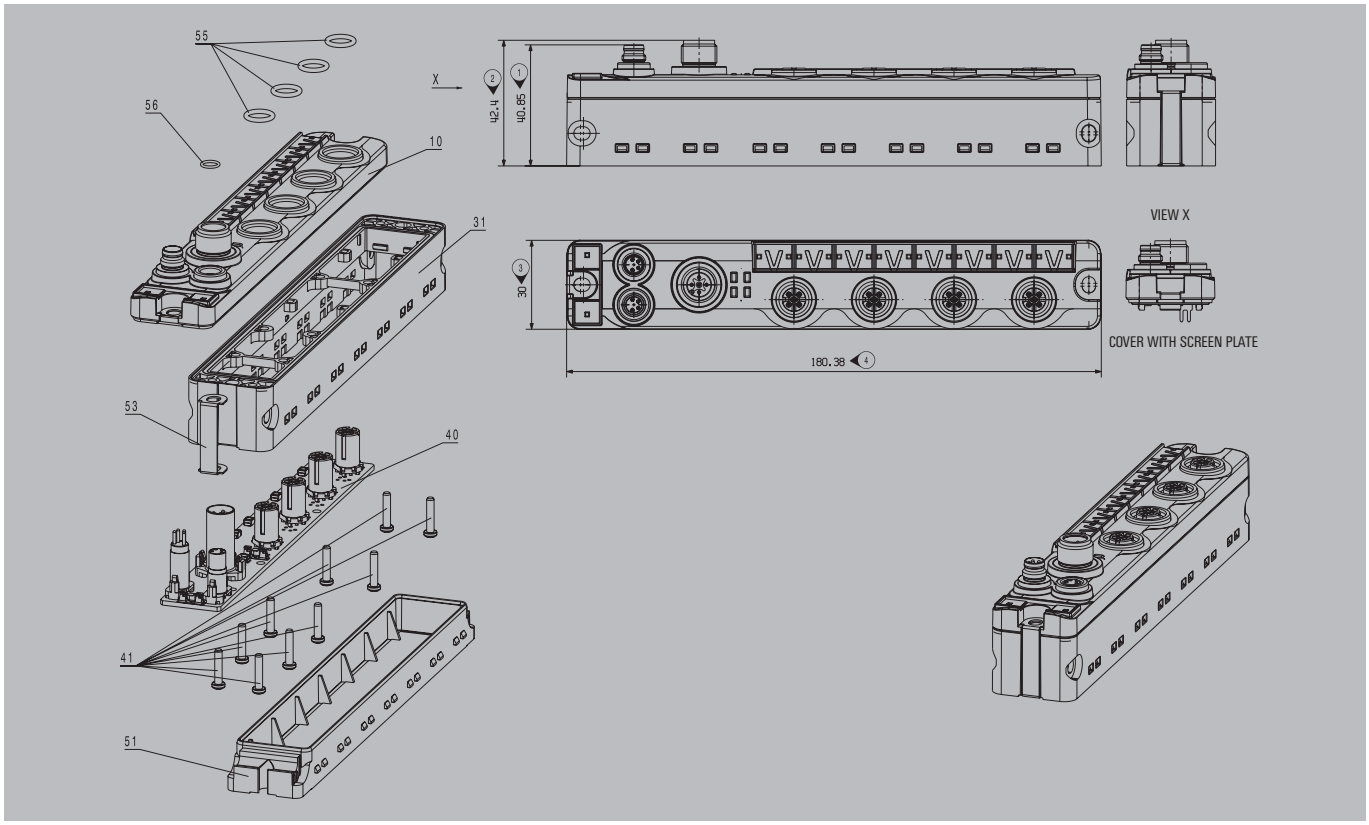
E/A plug socket M12



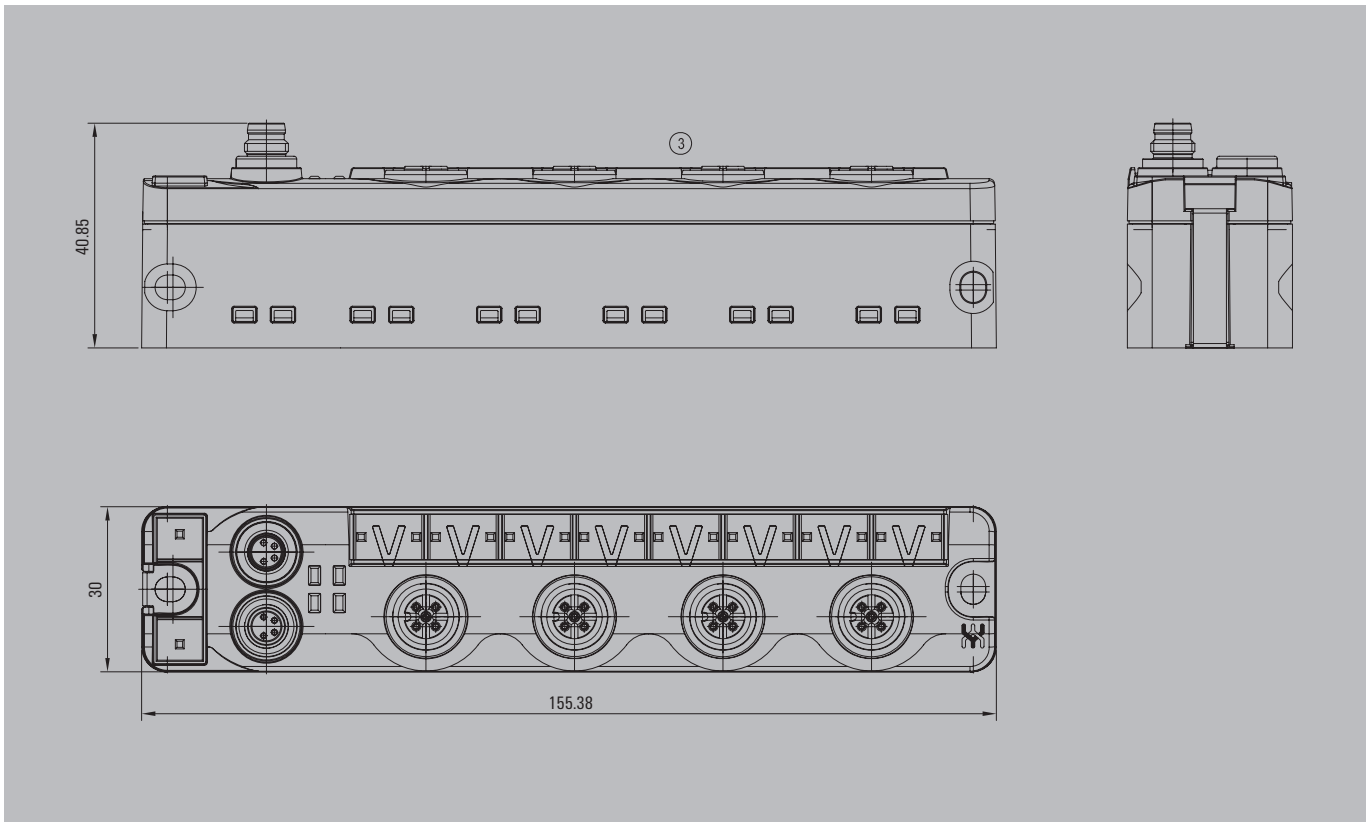
E/A plug socket M8



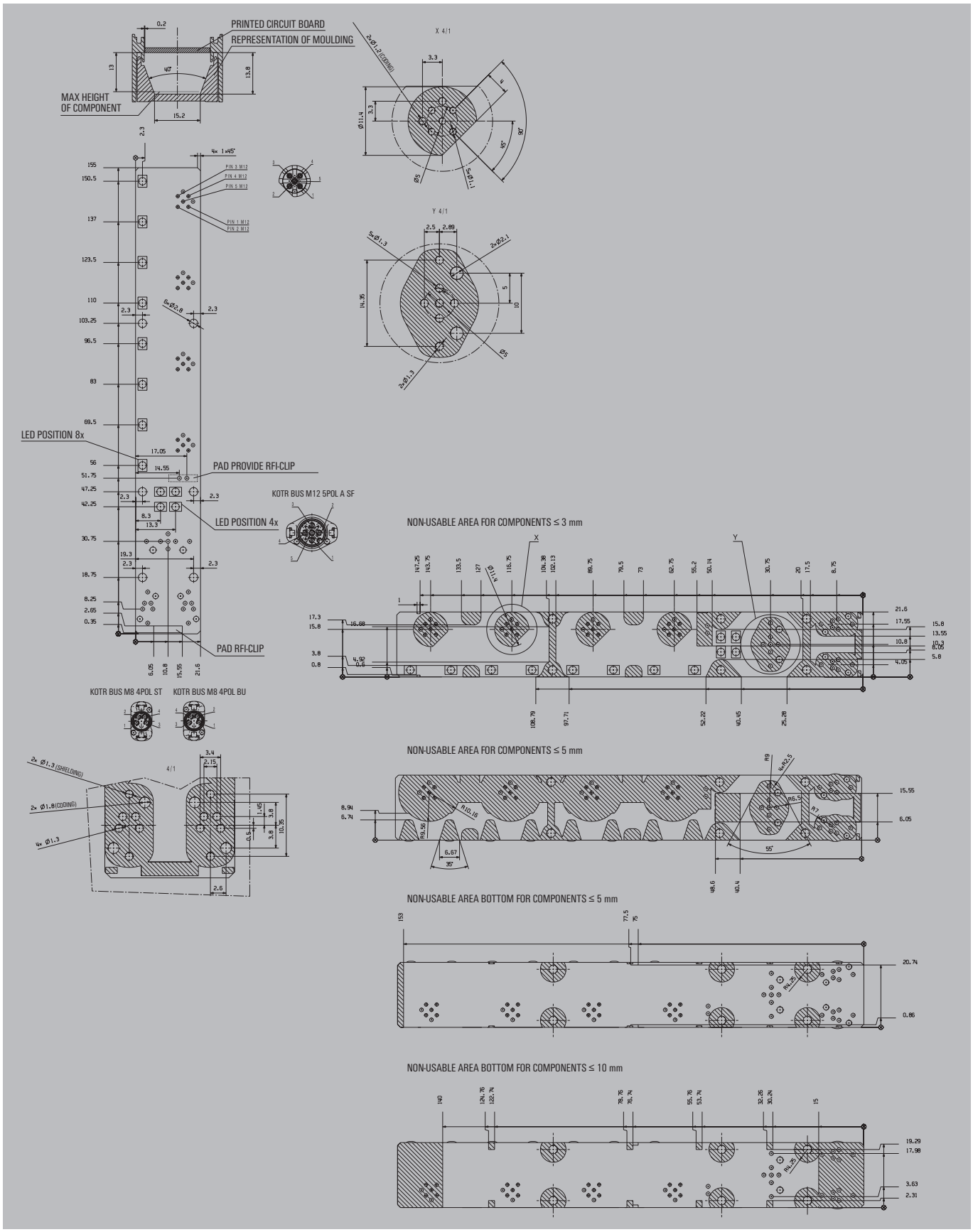
30 mm housing, long



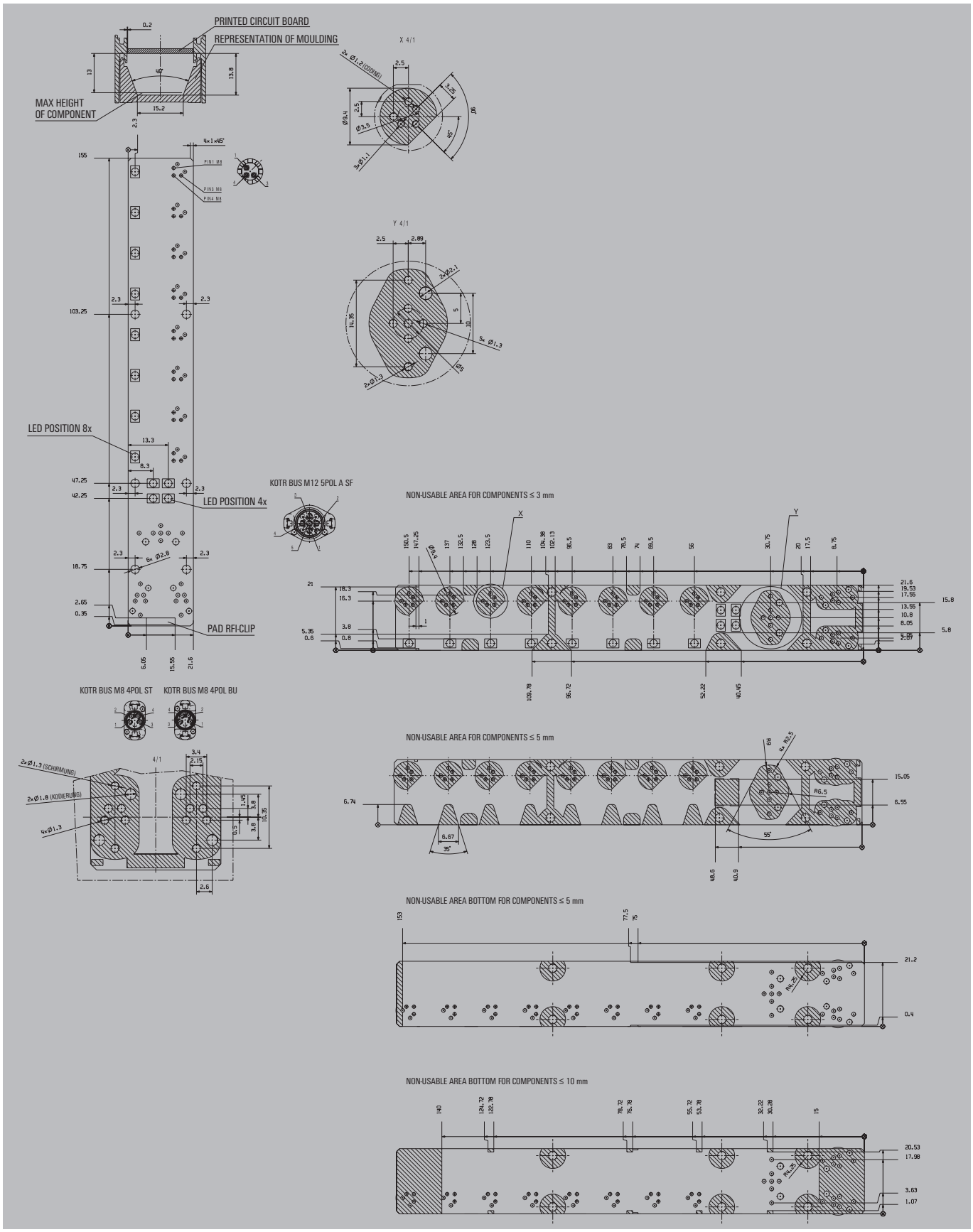
30 mm housing, short



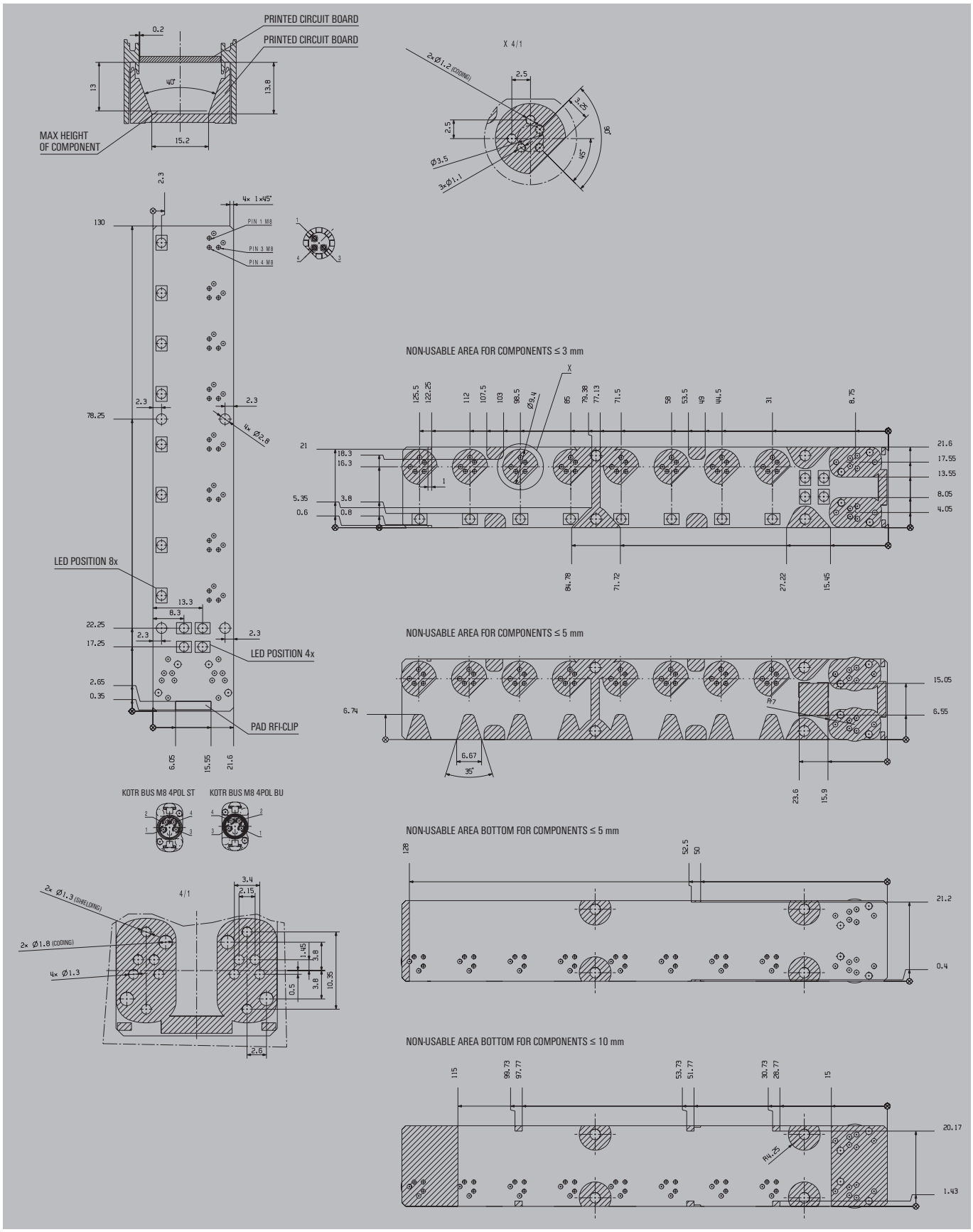
Free space 30 mm housing long with M12



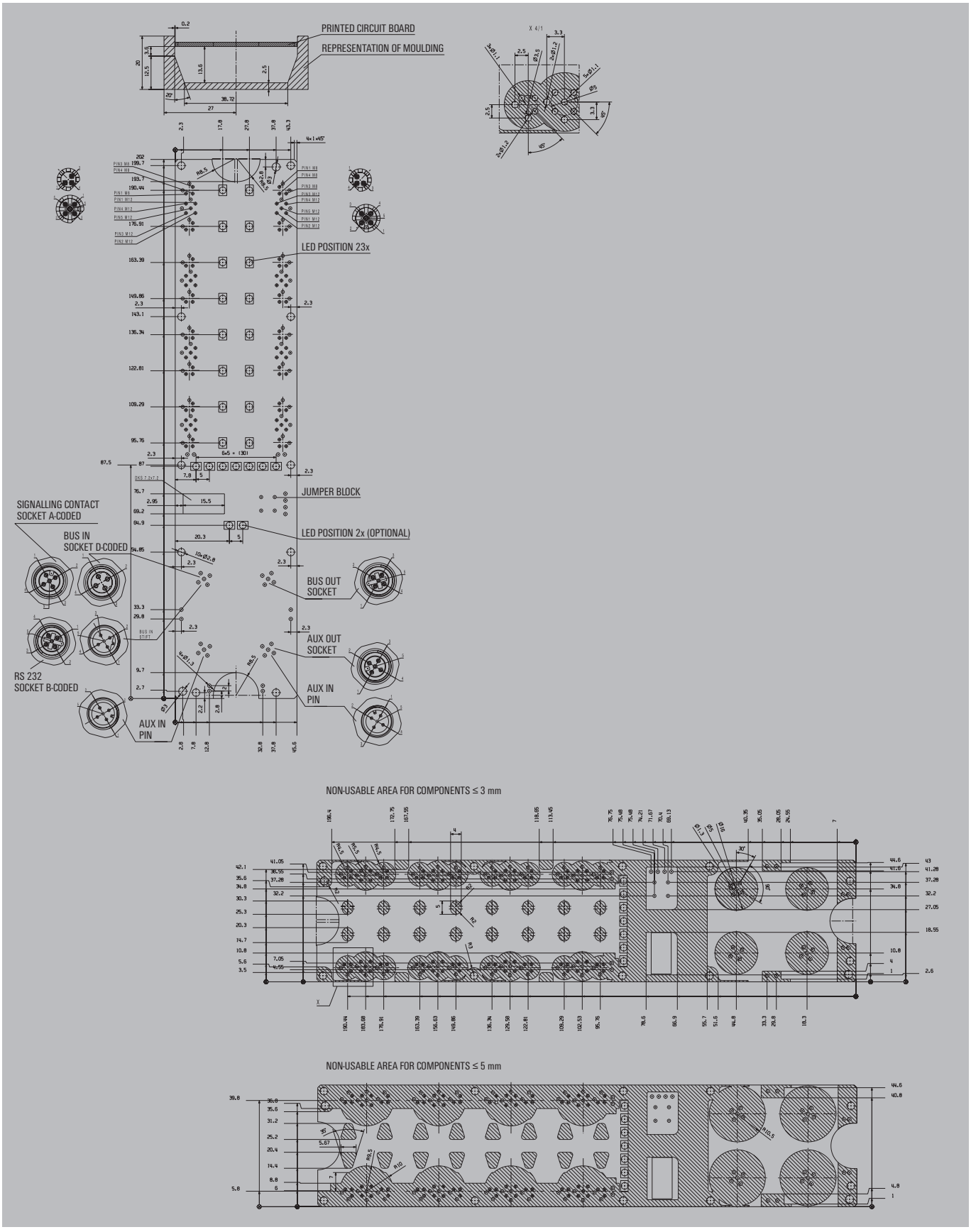
Free space 30 mm housing long with M8



Free space 30 mm housing short with M8



Free space 54 mm housing



7/8" connectors

7/8" connectors	Introduction	K.2
	7/8" plug-in connectors	K.6
	7/8" built-in plug	K.8
	7/8" sensor cables	K.13

Product description

Connectors with threads measured in inches have been used for many years, mainly outside Europe. The 7/8" thread types are the main group found within this group of products. They are essentially used in bus systems like Fieldbus Foundation or DeviceNet. In recent years these connectors also have become popular as supply ports for I/O nodes, due to the low number of pins and their sturdy construction.

Weidmüller now offers this product range in the following versions:

- Customisable connectors
- Built-in connectors
- Moulded cables



Customisable connectors

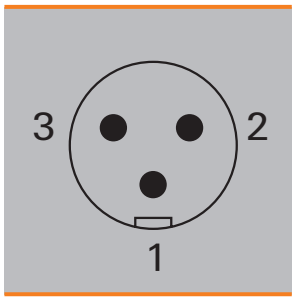
In certain circumstances it may be required to be able to assemble cables yourself. This may be for various reasons. For example, the length of the cable cannot be determined in advance, or during servicing, there may be a requirement to produce connections yourself. So that this can be easily achieved, simple connection solutions are required. With 7/8" connectors the screw connection provides the best solution due to its small dimensions and easy assembly. These customisable connectors also have sufficient space for the stranded wire ends. Weidmüller offers versions with differently sized cable glands to properly fit larger and smaller cable diameters. The contacts are gold-plated, for higher contact reliability.



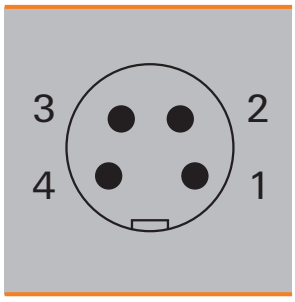
Pin out

Male insert (mating side)

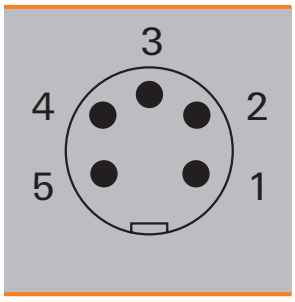
2+PE-pole



3 + PE-pole

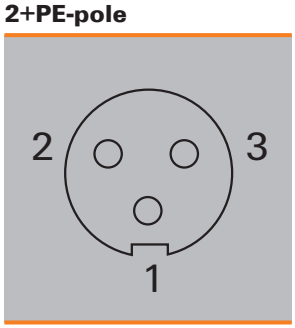


4+PE-pole

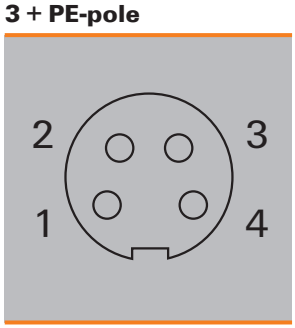


Female insert (mating side)

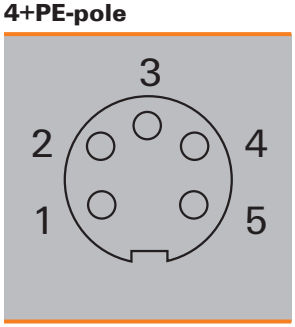
2+PE-pole



3 + PE-pole

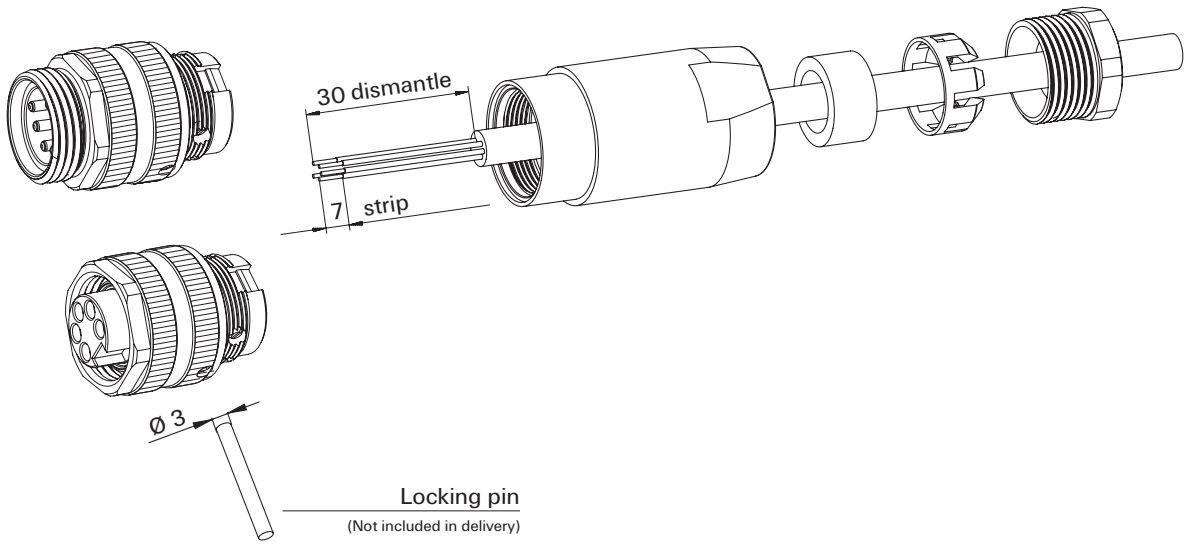


4+PE-pole

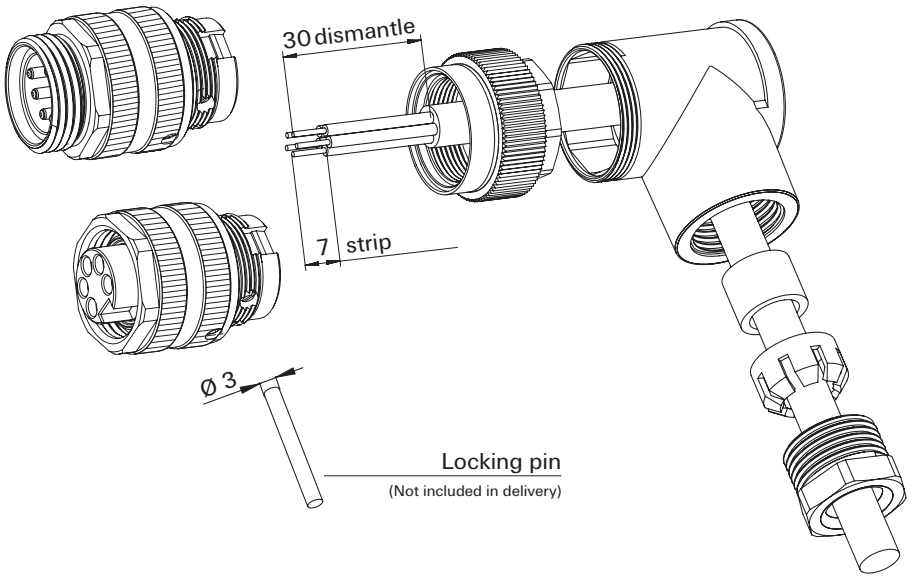


Customisable connector assembly instructions

Straight connector

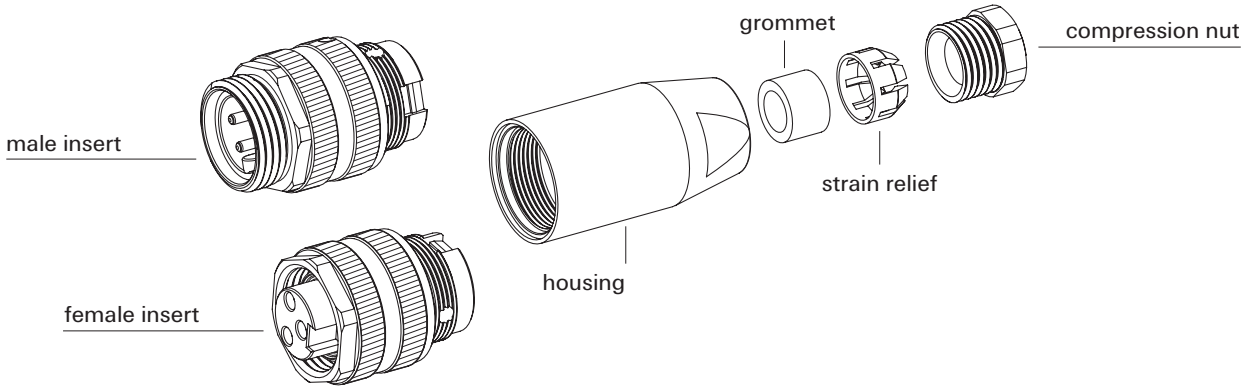


Angled connector

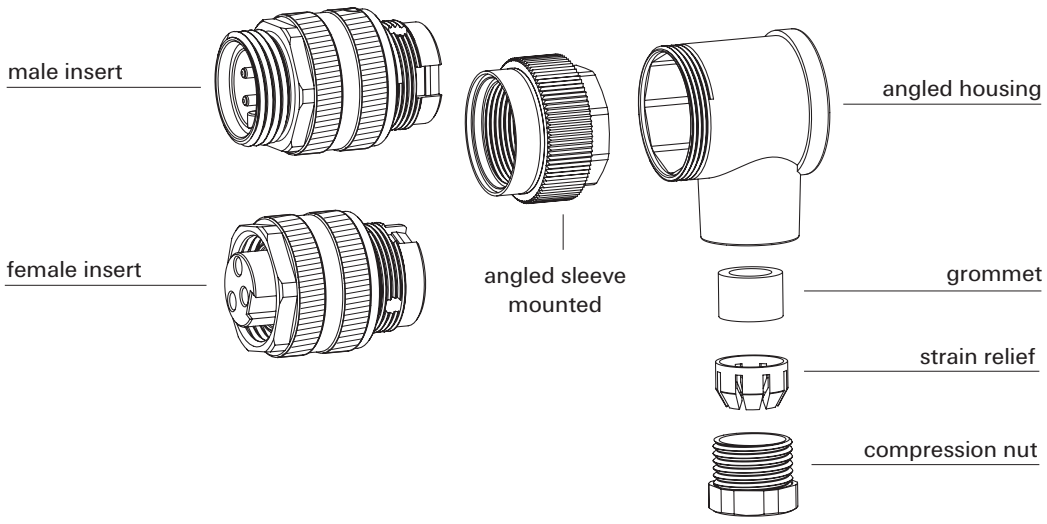


Individual component drawing of the customisable connector

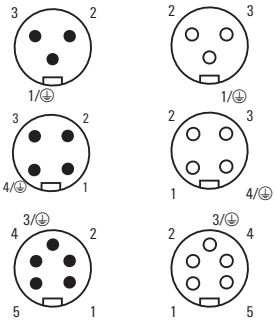
Straight connector



Angled connector



Screw connection 7/8", PG9
Cable diameter 6...8 mm



Plug Socket connector

SAIS / SAIB

straight



SAISW / SAIBW

angled



Ordering data

Male			
	2-pole + PE, PG 9	1	1291870000
	3-pole + PE, PG 9	1	1808840000
	4-pole + PE, PG 9	1	1301220000
Female			
	2-pole + PE, PG 9	1	1291910000
	3-pole + PE, PG 9	1	1812480000
	4-pole + PE, PG 9	1	1292000000
Note			

Type	Qty.	Order No.
SAIS-3/9-7/8	1	1291870000
SAIS-4/9-7/8	1	1808840000
SAIS-5/9-7/8	1	1301220000
SAIB-3/9-7/8	1	1291910000
SAIB-4/9-7/8"	1	1812480000
SAIB-5/9-7/8	1	1292000000

Type	Qty.	Order No.
SAISW-3/9-7/8	1	1291890000
"SAISW-4/9-7/8"""	1	1808830000
SAISW-5/9-7/8	1	1291980000
SAIBW-3/9-7/8	1	1291930000
"SAIBW-4/9-7/8"""	1	1812470000
SAIBW-5/9-7/8	1	1292020000

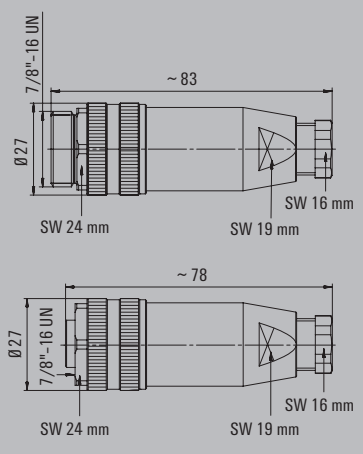
Technical data

Type of connection	Screw connection
Housing main material	PBT
Connection thread	7/8"
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.5...1.5 mm²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

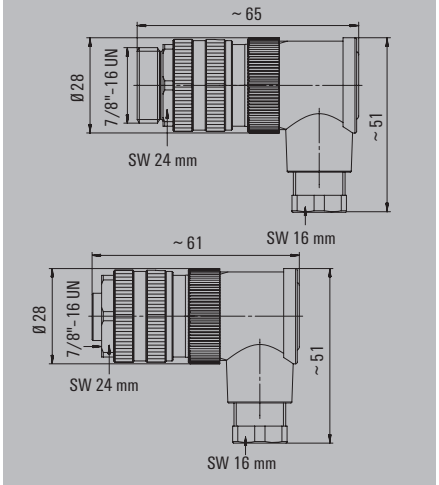
Screw connection	
PBT	
7/8"	
6...8 mm (PG9)	
0.5...1.5 mm²	
9 A (4- and 5-pole), 12 A (3-pole)	
250 V	
-40 ... +85 ° C	
IP67	
Gold-plated	
CuZn	
≥ 50	
3	

Screw connection	
PBT	
7/8"	
6...8 mm (PG9)	
0.5...1.5 mm²	
9 A (4- and 5-pole), 12 A (3-pole)	
250 V	
-40 ... +85 ° C	
IP67	
Gold-plated	
CuZn	
≥ 50	
3	

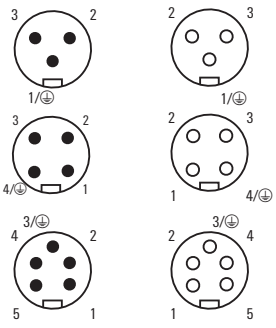
Dimensioned drawing



Dimensioned drawing



Screw connection 7/8", PG11
Cable diameter 8...10 mm



SAIS / SAIB

Angled



SAISW / SAIBW

Angled



Ordering data

Male			
	2-pole + PE, PG 11	SAIS-3/11-7/8	1291880000
	3-pole + PE, PG 11	SAIS-4/11-7/8	1291950000
	4-pole + PE, PG 11	SAIS-5/11-7/8	1291970000
Female			
	2-pole + PE, PG 11	SAIB-3/11-7/8	1291920000
	3-pole + PE, PG 11	SAIB-4/11-7/8	1292050000
	4-pole + PE, PG 11	SAIB-5/11-7/8	1292010000
Note			

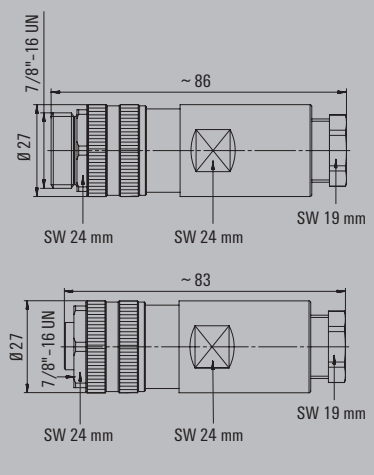
Type	Qty.	Order No.
SAISW-3/11-7/8	1	1291900000
SAISW-4/11-7/8	1	1292040000
SAISW-5/11-7/8	1	1291990000
SAIBW-3/11-7/8	1	1291940000
SAIBW-4/11-7/8	1	1292070000
SAIBW-5/11-7/8	1	1292030000

Technical data

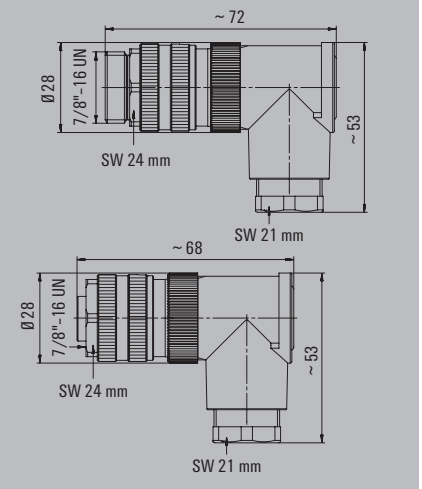
Type of connection	Screw connection
Housing main material	PBT
Connection thread	7/8"
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.5...1.5 mm²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

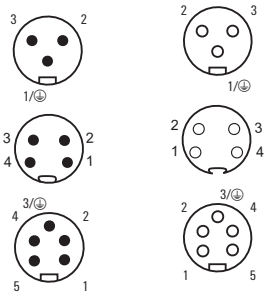
Screw connection	
PBT	
7/8"	
8...10 mm (PG11)	
0.5...1.5 mm²	
9 A (4- and 5-pole), 12 A (3-pole)	
250 V	
-40 ... +85 ° C	
IP67	
Gold-plated	
CuZn	
≥ 50	
3	

Dimensioned drawing



Dimensioned drawing





7/8"

Back panel mounting



Ordering data

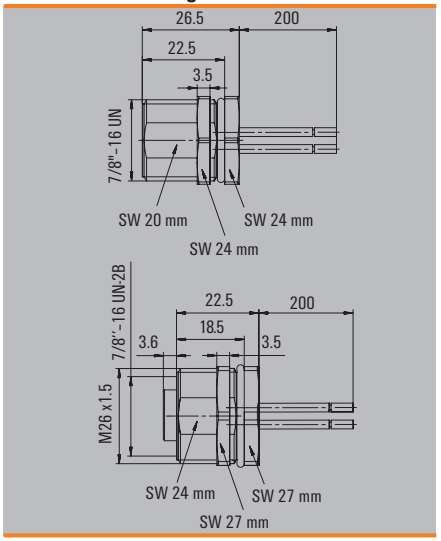
Male	
	2-pole + PE
	4-pole
	4-pole + PE
Female	
	2-pole + PE
	4-pole
	4-pole + PE
Note	

Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-H	1	**1292350000**
SAIE-7/8S-4-0.2U-H	1	**1292420000**
SAIE-7/8S-5-0.2U-H	1	**1292490000**
SAIE-7/8B-3-0.2U-H	1	**1292390000**
SAIE-7/8B-4-0.2U-H	1	**1292450000**
SAIE-7/8B-5-0.2U-H	1	**1292520000**

Technical data

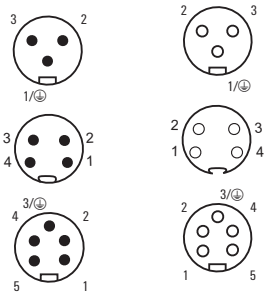
Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



7/8"

PG 11





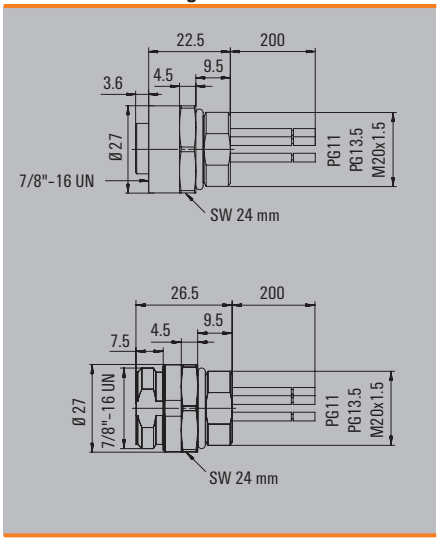
Ordering data

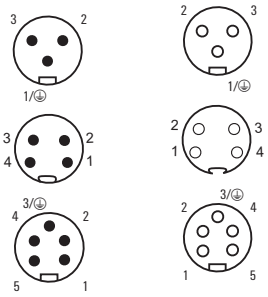
Male			
	2-pole + PE	SAIE-7/8S-3-0.2U-PG11	1	**1292330000**
	4-pole	SAIE-7/8S-4-0.2U-PG11	1	**1292400000**
	4-pole + PE	SAIE-7/8S-5-0.2-PG11	1	**1292470000**
Female				
	2-pole + PE	SAIE-7/8B-3-0.2U-PG11	1	**1292370000**
	4-pole	SAIE-7/8B-4-0.2U-PG11	1	**1292430000**
	4-pole + PE	SAIE-7/8B-5-0.2U-PG11	1	**1292500000**
Note				

Technical data

Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing





Male Female

7/8"

PG 13.5



Ordering data

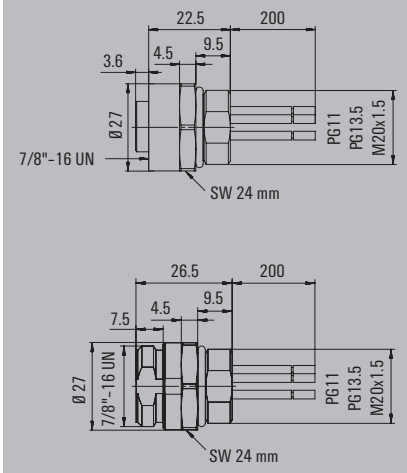
Male			
	2-pole + PE		
	4-pole		
	4-pole + PE		
Female			
	2-pole + PE	SAIE-7/8B-3-0.2U-PG13.5	1	**1292380000**
	4-pole	SAIE-7/8B-4-0.2U-PG13.5	1	**1292440000**
	4-pole + PE	SAIE-7/8B-5-0.2U-PG13.5	1	**1292510000**
Note			

Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-PG13.5	1	**1292340000**
SAIE-7/8S-4-0.2U-PG13.5	1	**1292410000**
SAIE-7/8S-5-0.2U-PG13.5	1	**1292480000**

Technical data

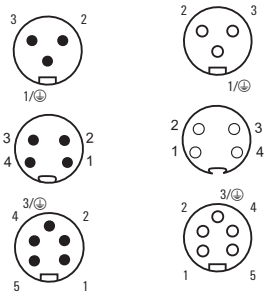
Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



7/8"

M20





Ordering data

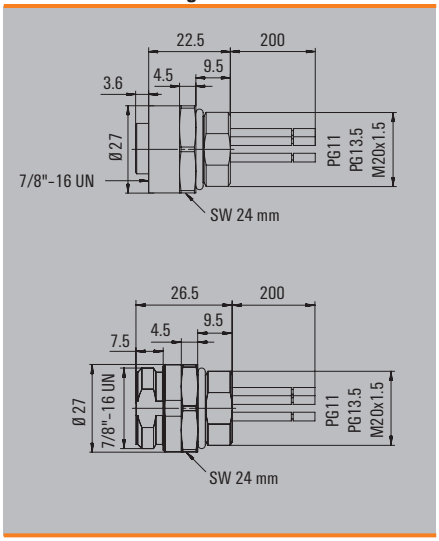
Male	
2-pole + PE	
4-pole	
4-pole + PE	
Female	
2-pole + PE	
4-pole	
Note	

Type	Qty.	Order No.
SAIE-7/8S-3-0.2U-M20	1	**1418040000**
SAIE-7/8S-4-0.2U-M20	1	**1418050000**
SAIE-7/8-S-5-0.2U-M20	1	**1471490000**
SAIE-7/8-B-3-0.2U-M20	1	**1471510000**
SAIE-7/8-B-4-0.2U-M20	1	**1471520000**

Technical data

Housing main material	Zinc diecast, nickel-plated
Connection thread	7/8"
Core cross-section	0.75 mm²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



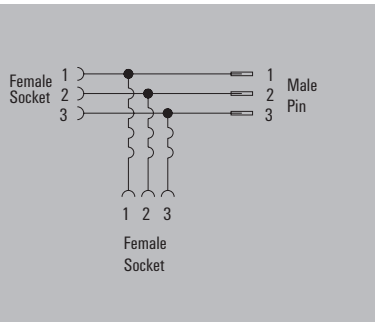
7/8" built-in plug

T distributor

7/8" / 7/8"

3-pole





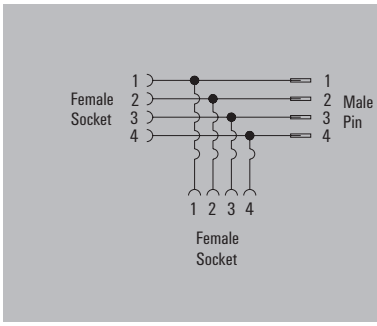
Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 3P	1	1413920000

7/8" / 7/8"

4-pole





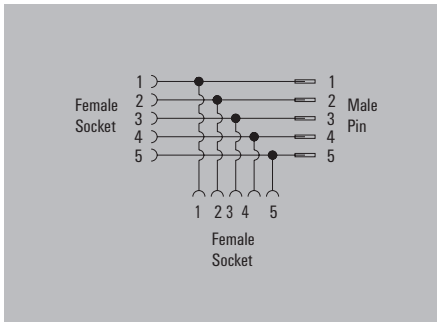
Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 4P	1	1413930000

7/8" / 7/8"

5-pole



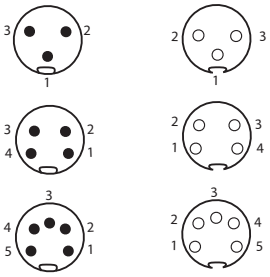


Ordering data

Type	Qty.	Order No.
SAI-Y-7/8 5P	1	1413940000

7/8" one end without connector





Male Female

Ordering data

	2-pole+PE	4-pole	4-pole+PE
Male, straight			
1.5 m	SAIL-7/8G-3-1.5U **1292080150**	SAIL-7/8G-4-1.5U **1292120150**	SAIL-7/8G-5-1.5U **1292170150**
Male, angled			
1.5 m	SAIL-7/8W-3-1.5U **1292090150**	SAIL-7/8W-4-1.5U **1292130150**	SAIL-7/8W-5-1.5U **1292180150**
Female, straight			
1.5 m	SAIL-7/8BG-3-1.5U **1292100150**	SAIL-7/8BG-4-1.5U **1292140150**	SAIL-7/8BG-5-1.5U **1292190150**
Female, angled			
1.5 m	SAIL-7/8BW-3-1.5U **1292110150**	SAIL-7/8BW-4-1.5U **1292150150**	SAIL-7/8BW-5-1.5U **1292200150**
Note	Cable outside diameter: 7.4 ± 0.2 mm	Cable outside diameter: 8.0 ± 0.2 mm	Cable outside diameter: 8.7 ± 0.2 mm

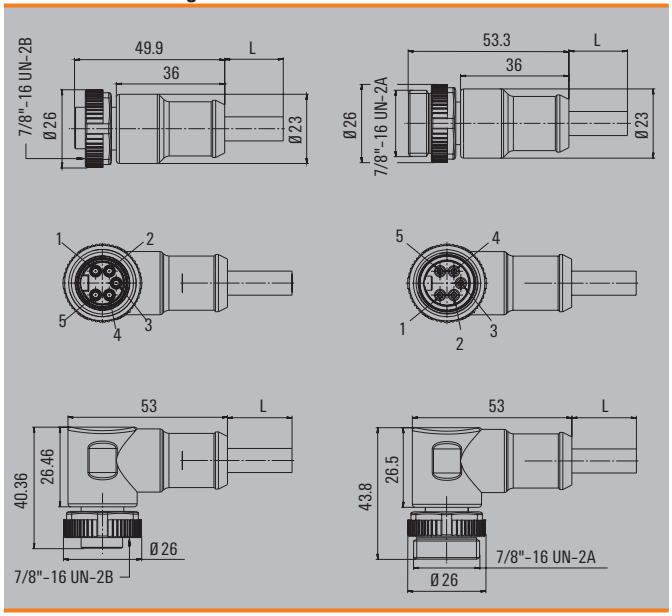
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current / Rated voltage	9 A (4- and 5-pole), 12 A (3-pole) / 300 V
Protection degree	IP68, when screwed in
Core cross-section	1.5 mm²
Contact surface / Contact material	Au (Gold) / CuZn
Housing main material	PUR
Sheathing colour	black
Temperature range of housing	-40...+125 °C
Plugging cycles	≥ 100
Pollution severity	3

Dimensioned drawing



Torques and spanner sizes

Torques and distances across flats of the cable gland

The following values for strain relief apply to plug-in connectors with strain relief

Cable Ø	Min. cable pull strength	Recommended torque of the clamping screw
2 - 3	min. 20 N	0.3 - 0.4 Nm
3 - 4	min. 30 N	0.3 - 0.4 Nm
4 - 5	min. 40 N	0.8 - 1.0 Nm
5 - 6	min. 50 N	0.8 - 1.0 Nm
6 - 7	min. 60 N	0.8 - 1.0 Nm
7 - 8	min. 70 N	0.8 - 1.0 Nm
8 - 12	min. 80 N	1.0 - 1.4 Nm
12 - 14	min. 120 N	1.0 - 1.4 Nm

Note: Torque of the: 7/8" plug-in connector: 1.5 Nm (spanner size: 24)
M 2.5 Threaded bolt: 0.4 Nm

Torque applicable for the mounting in enclosures

Cable gland	Recommended tightening torque for built-in plugs
PG 11	6,26 Nm
PG 13,5	6,25 Nm
M20 x 1,5	12,00 Nm
back panel mounting	12,00 Nm

Note:

M23 Connectors and cables

M23 Connectors and cables	Product Description: SAI M23 Connectors	L.2
	Contact assignment	L.7
	Technical data	L.8
	Overview	L.10
	M23 connector for signal transmission	L.12
	M23 connector for signal and power transmission	L.28
	M23 connector for power transmission	L.30
	M23 protective caps	L.34
	Moulded M23 cables	L.36
	SAI distributor M12 with M23	L.37
	SAI distributor M8 with M23	L.39
	Installation instructions – Signal connectors	L.40
	Installation instructions – Power connectors	L.45
	M23 connector	L.49

SAI M23

A comprehensive product line of connectors, distributors and cables

M23 connectors are mainly used for connecting electrical drives and servo-motors into industrial automation applications.
The M23 connectors are very easy to handle and operate. In addition to the injection-moulded variants and the SAI distributors with M23 connectors, Weidmüller is now offering customisable versions and built in plugs.





The M23 built in connector

The M23 built in connector provides a custom fit solution for building directly into the device.



M23 connectors for crimping

M23 connectors are easy to handle and operate. This is supported by the type of crimping that is used.



Robust metal housing

The M23 connectors feature an extra robust design.



Solutions for power and signals

The extensive product line includes the key housing shapes, such as angled connectors, coupling connectors and device connectors.



M23 connector for signal transmission
Housings



M23 connector for signal transmission
Built in connector



M23 connector for power transmission
Housings



M23 connector for power transmission
Built-in connector



Moulded M23 cables



SAI distributors

L

Product Description: SAI M23 Connectors

Technology and requirements

The M23 connectors are mainly used for integrating electrical drives and servo motors into industrial automation facilities. The M23 designation is based on the thread diameter of the connector, as shown in Figures 1 and 2. With their wide variety of inserts and housings, these connectors are equally suited for applications involving signal or power transmission. Applications set in harsh industrial environments place strict requirements on the connector. Much is demanded of the housing, the inner insert and the connector contact. Thermal loads, physical loads, and loads from the transmitted electrical power are commonplace. M23 connectors are capable of carrying a load of up to 250/630 V at 9/30 A.

The connectors must be resistant to the penetration of all particles and substances. They must also comply with the required class of IP protection. The material used for manufacture must be resistant to acid and alkaline solutions that may be used during cleaning or production processes. Also it must not be possible for residues to accumulate in the plug which could later contaminate the production flow. It must not be possible for the plug components to loosen due to vibration. In addition, the cable and connector must have EMC shielding for some applications. This keeps external interference from influencing the signals and it also prevents the transmitted signals in the cable from interfering with other cables or components. The standards and directives (such as the German or European standards) that are followed are basically only recommendations concerning the composition of the connector. A so-called “cold standard” exists for the M23 connectors.

Variants and designs

The variants can be generally classified according to their outer design, into either customisable types, or plastic moulded connectors with pre-connected cables. Both variants are available in male or female versions, and in straight or angled design. Different designs and inserts can be combined to fit the particular application so that an almost limitless variety of combinations is possible. The connector inserts are available in a variety of different pole counts and as either male or female versions. The pole counts also vary in that some contacts in the mating profile may have a larger cross-section than the others. Other types include the device connector variants which are used for contacting and connecting housings. These also come in a variety of designs. The metal alloy in use may differ depending on the particular type of application. For example, stainless steel is used for those variants that will be used in the food processing industry. Each connector is optionally available with EMC protection and a plastic surface.

Customisable connectors

Customisable connectors are almost all manufactured from metal alloys. Variants with plastic housings or fitting nuts are rare and used mostly for customer-specific solutions. Customiseable connectors are made up of a housing, a plastic contact carrier, and the contacts themselves. The various housing types can be equipped with the corresponding contact carriers. The carriers differ in their number of poles and the arrangement of the poles. Different types of contacts may also be used within the contact carriers. The shape of the contacts is either male or female. There are also difference in the width, material, and connection system (such as soldered, crimped or screwed).

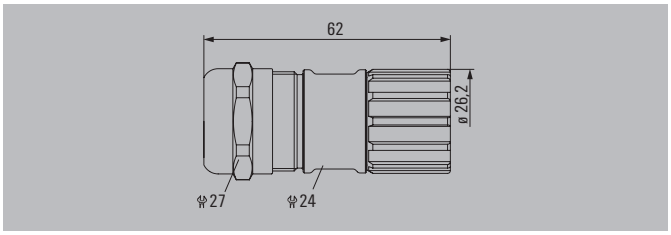


Figure 1: M23 cable connector

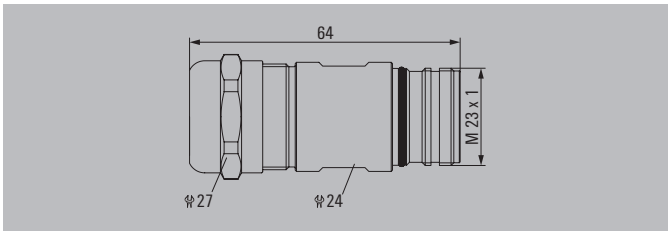


Figure 2: M23 coupling connector

This modular construction allows for a wide variety of combinations to fit any application type. Figure 3 shows the design and assembly of an M23 signal connector. Since the connector is usually put together in the field, the key requirement is that the connector is easy and reliable for the electrician to handle on-site. A good example of convenient handling is the integrated EMC shielding. An improved shield connection results because the shielding can be connected in less steps and with fewer tools. The complete assembly process must be clear and concise, and should only take a few steps.

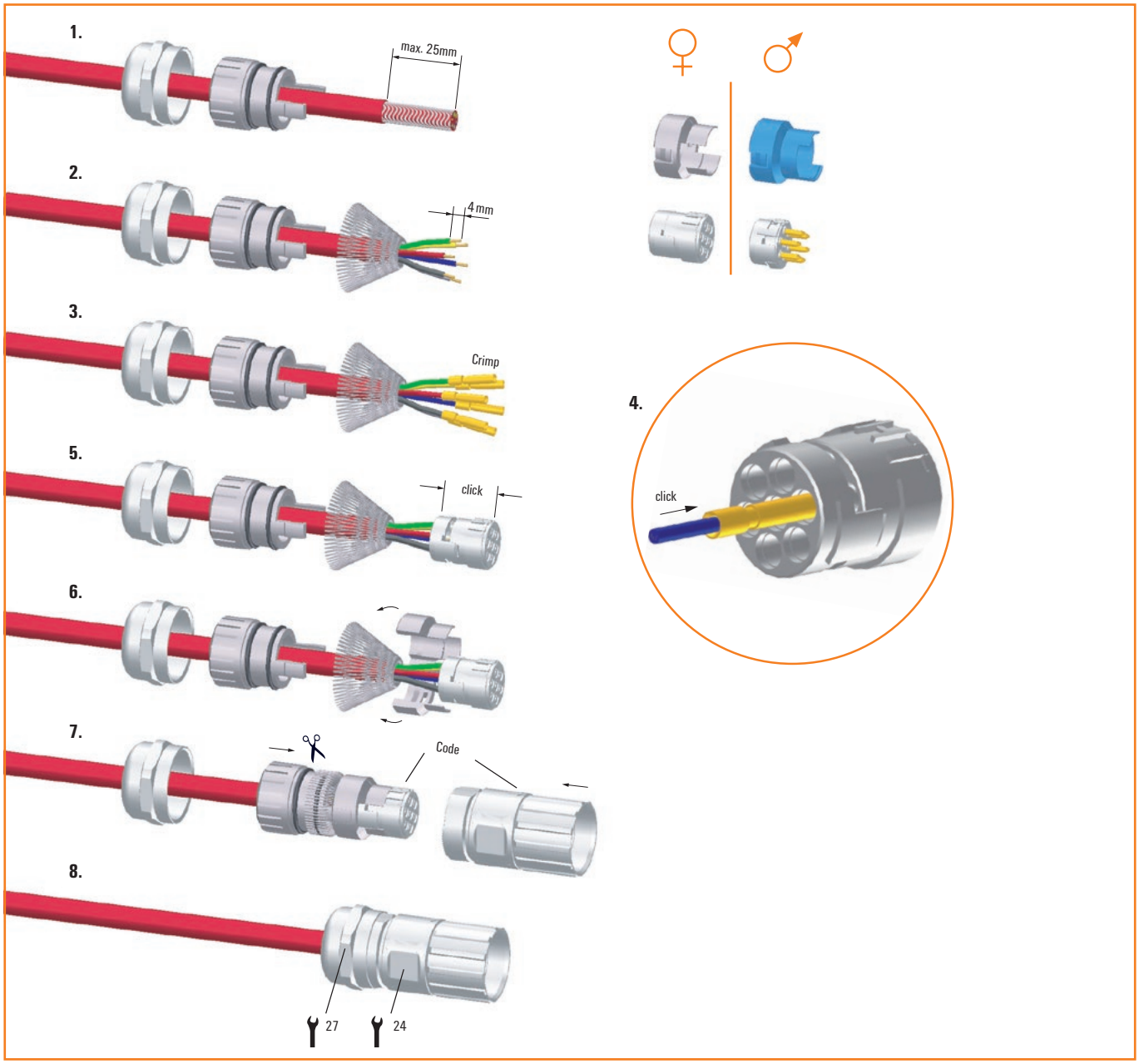


Figure 3: Design and assembly of an M23 connector

Plastic injection moulded connector with connected cable

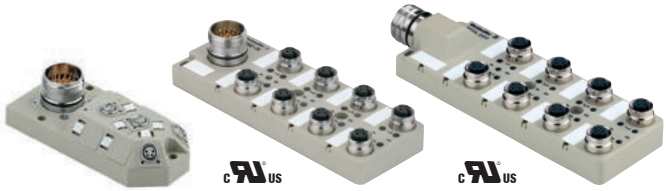
Plastic injection moulded cables are cables that have already been fitted with connectors. First the cables are connected with the contacts and then these are mounted into the contact carrier. Next, plastic injection moulding is used to cover the cable and contact carrier with a plastic moulding. This ensures a highly stable and well sealed connector housing. The connector must be destroyed for it to be disconnected from its cable. The connector's outer form and material is put together by a plastic processing tool.
The advantage of a moulded cable is that the connection between the cable and the connector has already been tested at the production factory. The electrician need only adjust the length. Depending on the application, he may choose to use another connector on the open end or connect the individual cable wires directly (for example, to a terminal block). The advantages of this variant type includes the inexpensive assembly of large batches, the high degree of automation and minimal amount of material used. High reliability and an excellent seal are two additional advantages.



Plastic injection-moulded M23 connector

Connector usage and application

M23 connectors are mainly used for integrating within machine and facility construction applications. These applications require connections with a long life span and high reliability. The failure of a single connector could lead to the failure of the entire production line. It's important to avoid facility outages caused by a connector malfunction, so the machine and facility construction industry relies on connectors with the advantages listed above. Both signals and power must be transferred in such applications. The connector and the cable must be able to withstand harsh industrial conditions. Cables may be under stress from constant motion, in particular for applications involving robotics or dragline chains. Special cables with a specific maximum bending radius are used for such applications (for example, the bending radius may be 10d, i.e., ten times the cable diameter). When constructing a facility, a variety of connection scenarios are possible based on the particular conditions or adaptations of existing facilities. The length or configuration of the cable must be adapted to fit these conditions. If space is constricted, for instance, it may be necessary to replace a straight connector with an angled one.
Cables can be equipped with both a moulded (extruded) connector and a customisable connector. This ensures proper functionality while providing the flexibility to adapt to changing conditions on location. Safe connections can thus be established with any possible connector combination or at any protective class required. This gives the facility planner the safety he needs. And the electrician on-site can set up the facility properly because he has sufficient flexibility to adapt to uncertain conditions. For sensor systems, connectors with high pole counts are often used on SAI distributors. Individual sensors are connected to the distributors where the signals are then centralised. They are then transferred to the controller using a cable with an M23 connector. The most common use for transmitting power involves the connection of servo-motors in machines. M23 connectors are used for this purpose because of their sturdy and compact design and their high power-carrying capacities. Because of the size of the M23 connector, it can also be used in a hybrid version for transmitting both signals and power. The signal-carrying contacts are then shielded within the connector to ensure that the transmitted voltages do not interfere with the signals.

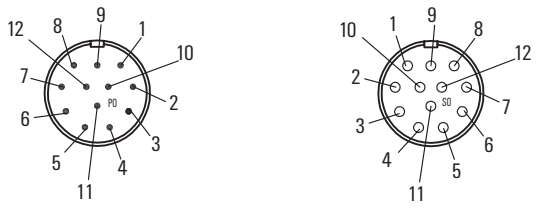


SAI distributor with M23 connector

Contact assignment SAI M23

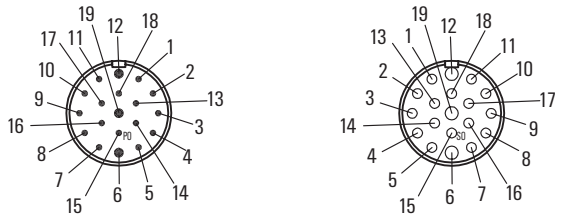
M23 12- and 19-pole, for SAI distributors and cables

12-pole



Pole	Colour code	Plug-in station	Contact M12
1	white	1	4
2	green	2	4
3	yellow	3	4
4	grey	4	4
5	pink	5	4
6	red	6	4
7	black	7	4
8	violet	8	4
9	blue (–)	1–8	3
10	blue (–)	1–8	3
11	brown (+)	1–8	1
12	green-yellow (PE)	1–8	5

19-pole



Pole	Colour code	Plug-in station	Contact M12
1	violet	8	4
2	red	6	4
3	grey	4	4
4	red/blue	2	2
5	green	2	4
7	grey/pink	1	2
8	white/green	3	2
9	white/yellow	5	2
10	white/grey	7	2
11	black	7	4
13	yellow/brown	6	2
14	brown/green	4	2
15	white	1	4
16	yellow	3	4
17	pink	5	4
18	grey/brown	8	2
6	blue (–)	1–8	3
12	green-yellow (PE)	1–8	5
19	brown (+)	1–8	1

Description code

Housing	
G	Inner thread
K	Outer thread
W	angled
S	Signal connectors
L	Power connectors
7/12	Cable passage
Inserts	
BE	Female insert
SE	Male insert
4/4	Number of contacts, here for 4 sensor and 4 power contacts
Contacts	
KBC	Female contact
Wire cross-section	
0.08/0.56	0.08 mm² – 0.56 mm²
0.25/1.0	0.25 mm² – 1.0 mm²
0.75/2.5	0.75 mm² – 2.5 mm²
Moulded M23 cables	
SAIS	Cable with male plug
SAIB	Cable with female plug
12p	12-pole
19p	19-pole
AN	angled
ST	straight
...M	Length in metres

Contact partitioning

Signal connectors Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	
Power connectors **Type**	**1 mm contact**	**1.5 mm contact**	**2 mm contact**
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

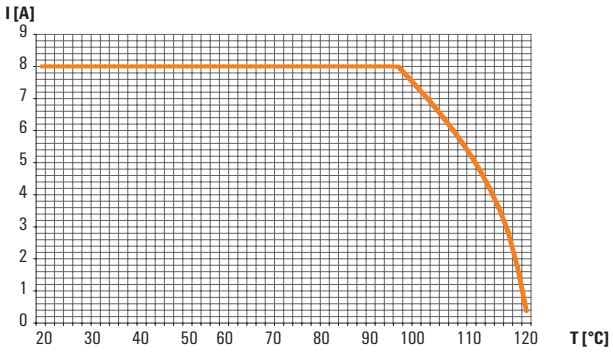
Signal connectors

Technical data

Mechanical data										
Housing		Copper-Zinc alloy Die Casting								
Housing surface		Nickel plated brass other surface upon request								
Inserts (for contacts)		Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0								
Contacts		Copper-Zinc alloy								
Contact surface at point of contact		Nickel and gold plated (0.25 µm Au)								
Minimum mating cycles		> 1000								
Seals / O-Rings		Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)								
Temperature range		-40 °C – 125 °C								
Type of contacts		Crimp, solder, dip-solder (PCB)								
Protection, Imperviousness		IP 67 / IP 69 K per EN 60 529 (connected)								
Cable diameter range		3 – 17 mm								
Electrical Data										
Number of positions		6	7	9		12	16	17	19	
Number of contacts		6	7	8	1	12	16	17	16	3
Contact-Ø	mm	2	2	1	2	1	1	1	1	1.5
Nominal current	A	20	20	8	20	8	8	8	8	10
Nominal voltage at pollution degree 2	V~	630	630	500		500	400	400	320	
Nominal voltage at pollution degree 3	V~	300	300	200		200	160	160	100	
Test voltage	V~	2500	2500	2500		2500	1500	1500	1500	
Insulation resistance	MΩ	> 10^{10}	> 10^{10}	> 10^{10}		> 10^{10}	> 10^{6}	> 10^{6}	> 10^{6}	
Max. contact resistance	mΩ	3	3	3		3	3	3	3	

Derating curve

Straight Connectors male + female M 23, 12-pole,
wires 12 x AWG17



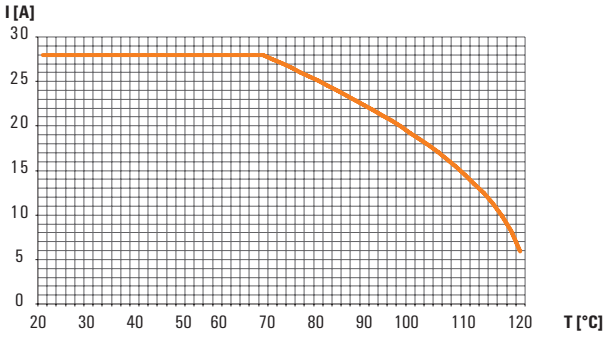
Power connectors

Technical data

Mechanical data				
Housing		Copper-Zinc alloy Die Casting		
Housing surface		Nickel plated brass other surface upon request		
Inserts (for contacts)		Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0		
Contacts		Copper-Zinc alloy		
Contact surface at point of contact		Nickel and gold plated (0.25 µm Au)		
Minimum mating cycles		> 1000		
Seals / O-Rings		Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)		
Temperature range		-40 °C – 125 °C		
Type of contacts		Crimp		
Protection, Imperviousness		IP 67 / IP 69 K per EN 60 529 (connected)		
Cable diameter range		7 – 17 mm		
Electrical Data				
Number of positions		5 + PE	4/4	
Number of contacts		6	4	4
Contact-Ø	mm	2	1	2
Nominal current	A	28	8	28
Nominal voltage at pollution degree 2	V~	800	300	800
Nominal voltage at pollution degree 3	V~	600	300	600
Test voltage	V~	4000	2500	4000
Insulation resistance	MΩ	> 10^{13}	> 10^{13}	
Max. contact resistance	mΩ	3	3	

Derating curve

Straight connectors male + female M 23, 5 + PE, wires 5 x AWG12



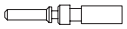
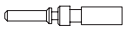
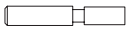
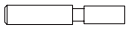
M23 connector for signal transmission

All customisable connectors can also be assembled together with shielded cables.

Housing	Contact inserts*	Contacts
Cable connector 	6-pole 	Crimp pin 1 mm rotated 0.08 – 0.56 mm² 
Coupling connector 	7-pole 	Crimp pin 1 mm rotated 0.14 – 1.00 mm²
Angled connector 	9-pole 	Crimp pin 1 mm rotated 1.00 – 1.50 mm²
Angled connector (coupling) 	12-pole 	Crimp socket 1 mm rotated 0.08 – 0.56 mm²
Device connector (front panel) 	16-pole 	Crimp socket 1 mm rotated 0.14 – 1.00 mm²
Device connector with knurled nut 	17-pole 	Crimp socket 1 mm rotated 1.00 – 1.50 mm²
Device connector (single-hole mount) 	19-pole 	Crimp pin 2 mm rotated 0.14 – 0.56 mm²
Device connector (angled) 		Crimp socket 2 mm rotated 0.56 – 1.00 mm²
Device connector (back panel) 		Crimp pin 2 mm rotated 0.75 – 2.50 mm² 
		Crimp socket 2 mm rotated 0.75 – 2.50 mm² 

* Solder and crimp inserts

M23 connector for power transmission

Housing		Contact inserts*		Contacts	
Cable connector		6 x Male 2 mm		Crimp pin 1 mm turned 0.25 – 1.00 mm²	
Coupling connector		6 x Socket 2 mm		Crimp socket 1 mm turned 0.25 – 1.00 mm²	
Angled connector		4 x Male 1 mm 4 x Male 2 mm		Crimp pin 2 mm turned 0.75 – 2.50 mm²	
Angled connector (coupling)		4 x Socket 1 mm 4 x Socket 2 mm		Crimp pin 2 mm turned 2.50 – 4.00 mm²	
Device connector (front panel)				Crimp socket 2 mm turned 0.75 – 2.50 mm²	
Device connector with knurled nut				Crimp socket 2 mm turned 2.50 – 4.00 mm²	
Device connector (back panel)					
Device connector (back panel)					
Device connector (angled)					

* Crimp inserts

Moulded M23 cables

Housing
Cable connector
Coupling connector
Angled connector
Angled connector (coupling)



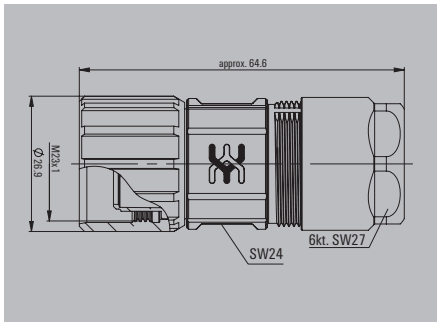
M23 connector for signal transmission

Housing

For cable diameters: 7 - 12 mm

Cable plug-in connector



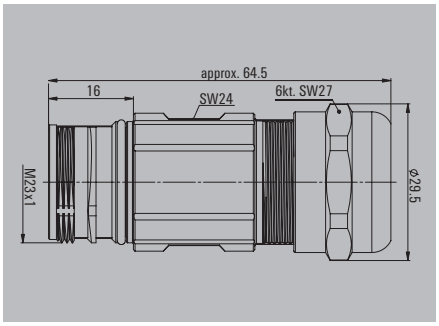


Ordering data

Type	Qty.	Order No.
SAI-M23-GS-11/17	1	1299390000
SAI-M23-GS-7/12	1	1995840000

Coupling plug-in connector



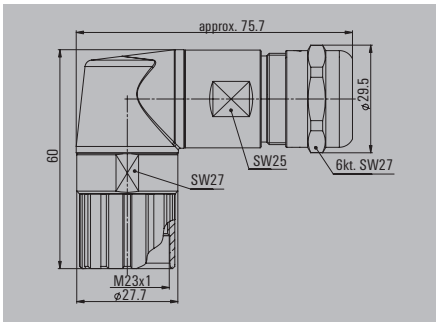


Ordering data

Type	Qty.	Order No.
SAI-M23-KS-7/12	1	1169900000

Angle plug-in connector



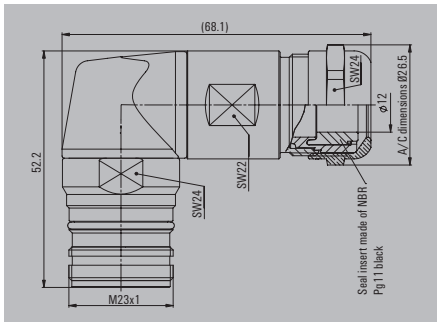


Ordering data

Type	Qty.	Order No.
SAI-M23-GSW-S-7/12	1	1169920000

Angle plug-in connector coupling





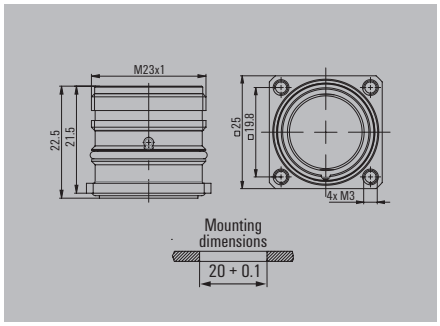
Ordering data

Type	Qty.	Order No.
SAIL-M23-KSW-7/12	1	1169930000

Built-in connector

Device connector (front wall)



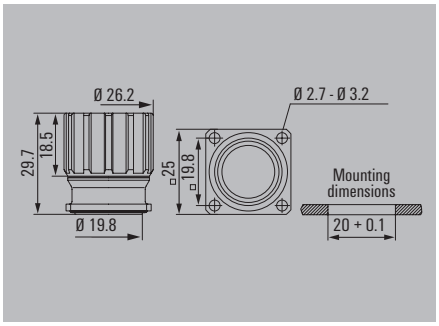


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	1169940000

Device connector with knurled nut





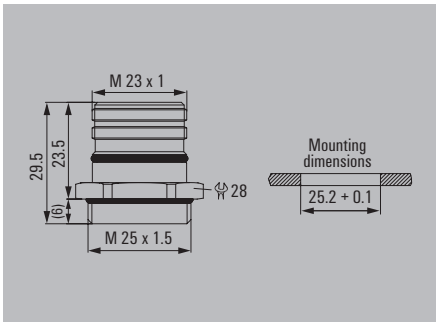
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-RM	1	1169950000

Device connector, single-hole mount

for male and female inserts



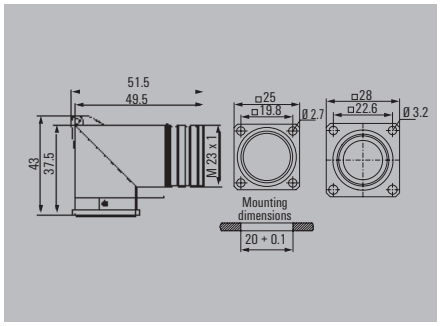


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM	1	1169970000

Device connector, angled



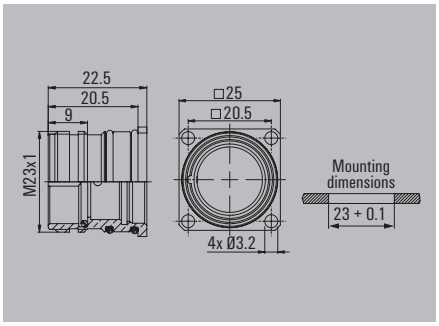


Ordering data

Type	Qty.	Order No.
SAIE-M23-S-W	1	1169980000

Device connector, rear wall





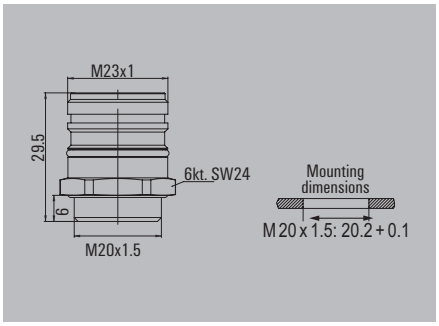
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-HW	1	1169990000

Device connector, single-hole mounting

only for male inserts





Ordering data

Type	Qty.	Order No.
SAIE-M23S-S-EM-M20	1	1373440000

M23 connector for signal transmission

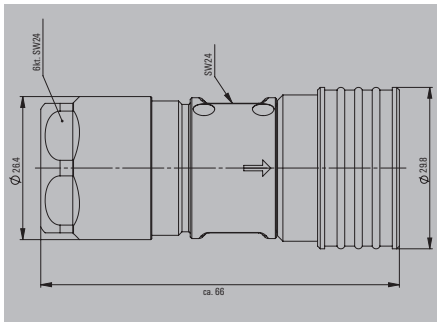
PushPull enclosure

For cable diameters 3 - 17 mm

Cable connector

Cable diameter: 3-7 mm





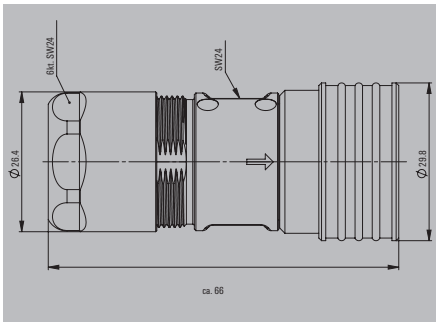
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-3/7	1	2467720000

Cable connector

Cable diameter: 7-12 mm





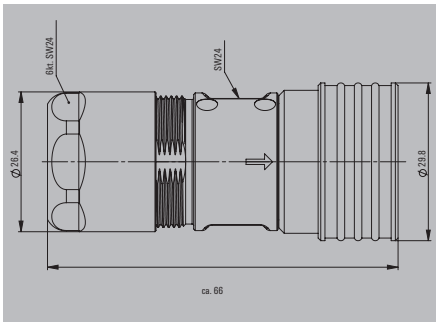
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-7/12	1	2467730000

Cable connector

Cable diameter: 11-17 mm





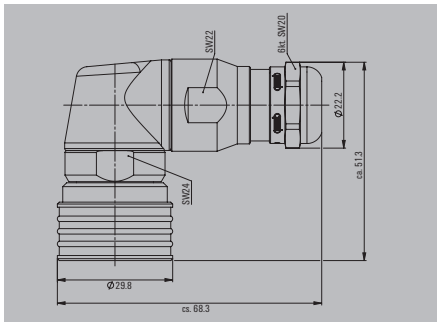
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GS-11/17	1	2467740000

Right-angle connector

Cable diameter: 3-7 mm





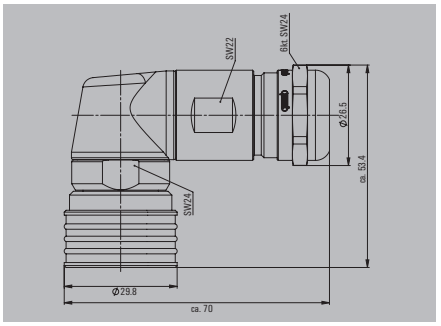
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-3/7	1	2467750000

Angled connector

Cable diameter: 7-12 mm





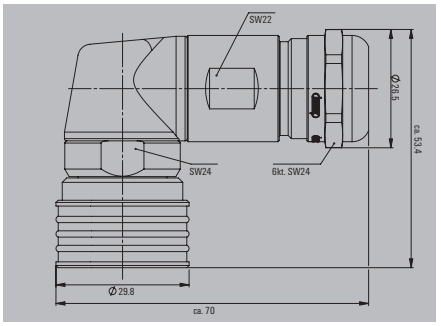
Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-7/12	1	2467760000

Angled connector

Cable diameter: 11-17 mm



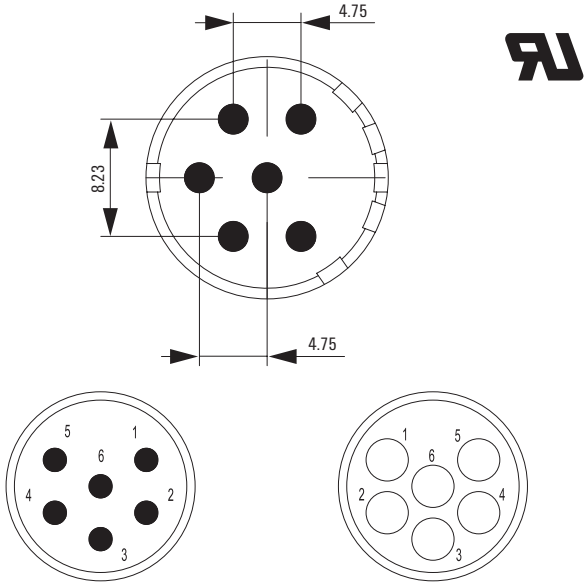


Ordering data

Type	Qty.	Order No.
SAI-M23PP-GSW-11/17	1	2467770000

Inserts

6-pole



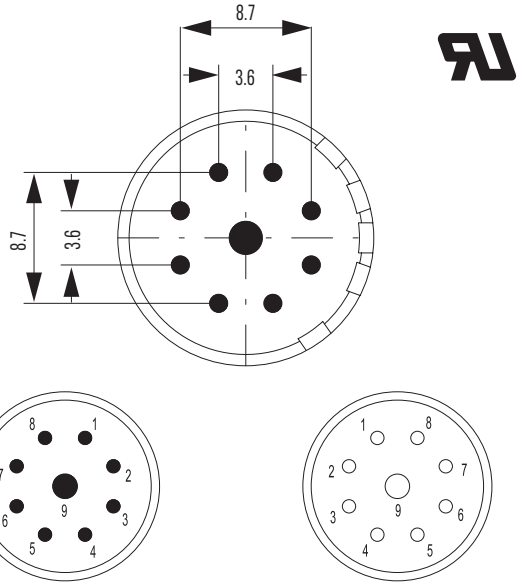
Male insert on plug side

Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 6-pole male	SAI-M23-SE-6	1	1170000000
Insert 6-pole socket	SAI-M23-BE-6	1	1170020000

9-pole



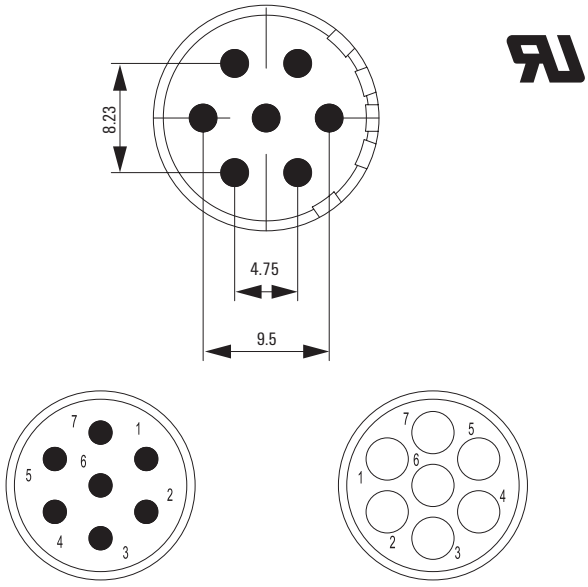
Male insert on plug side

Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 9-pole male	SAI-M23-SE-9	1	1170050000
Insert 9-pole socket	SAI-M23-BE-9	1	1170060000

7-pole



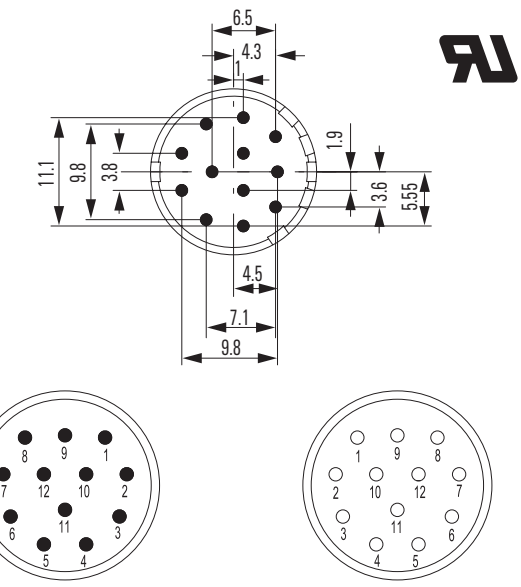
Male insert on plug side

Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 7-pole male	SAI-M23-SE-7	1	1170030000
Insert 7-pole socket	SAI-M23-BE-7	1	1170040000

12-pole



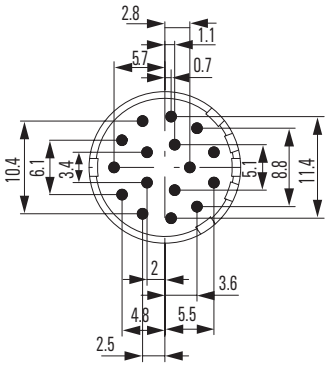
Male insert on plug side

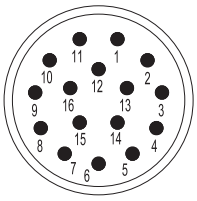
Female insert on plug side

Ordering data

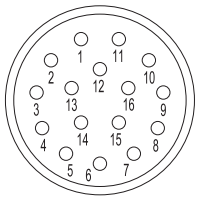
	Type	Qty.	Order No.
Insert 12-pole male	SAI-M23-SE-12	1	1170070000
Insert 12-pole socket	SAI-M23-BE-12	1	1995850000
Reverse flow socket	SAI-M23-BE-12-G	1	1296730000

16-pole





Male insert on plug side

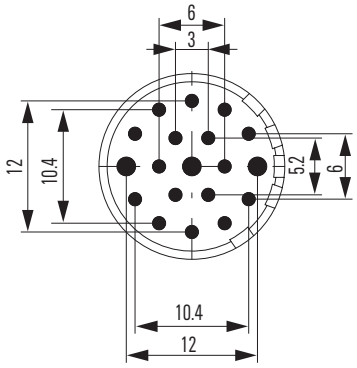


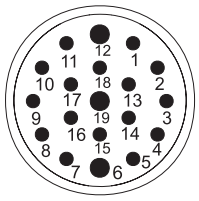
Female insert on plug side

Ordering data

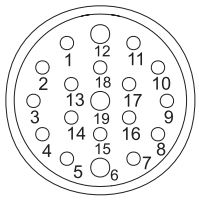
	Type	Qty.	Order No.
Insert 16-pole male	SAI-M23-SE-16	1	**1170080000**
Insert 16-pole socket	SAI-M23-BE-16	1	**1170090000**

19-pole





Male insert on plug side

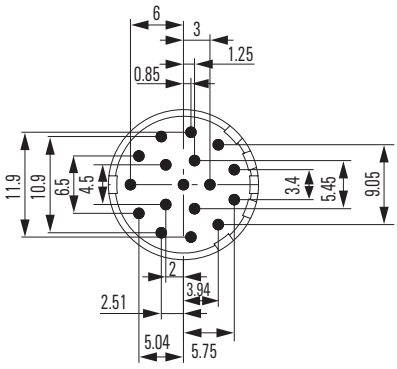


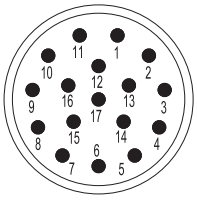
Female insert on plug side

Ordering data

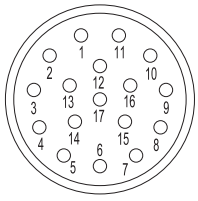
	Type	Qty.	Order No.
Insert 19-pole male	SAI-M23-SE-19	1	**1170120000**
Insert 19-pole socket	SAI-M23-BE-19	1	**1170130000**

17-pole





Male insert on plug side



Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 17-pole male	SAI-M23-SE-17	1	**1170100000**
Insert 17-pole socket	SAI-M23-BE-17	1	**1170110000**

Contact partitioning

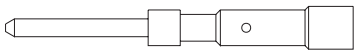
Signal connectors Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	

L

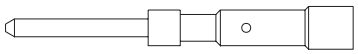
Contacts

Male, 1 mm

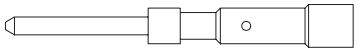
0.08-0.56



0.14-1.00



1.00-1.50

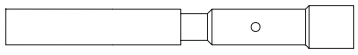


Ordering data

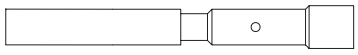
	Type	Qty.	Order No.
1.0 mm Male (0.08-0.56)	SAI-M23-KSC-0.08/0.56	50	**1170140000**
1.0 mm Male (0.14-1.00)	SAI-M23-KSC-0.14/1.00	50	**1170150000**
1.0 mm Male (1.00-1.50)	SAI-M23-KSC-1.00-1.5	50	**1170170000**

Female, 1 mm

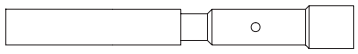
0.08-0.56



0.34-1.00



1.00-1.50



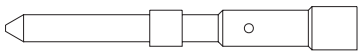
with integrated SLS® technology

Ordering data

	Type	Qty.	Order No.
1.0 mm Socket (0.08-0.56)	SAI-M23-KBC-0.08/0.56	50	**1995860000**
1.0 mm Socket (0.34-1.00)	SAI-M23-KBC-0.34/1.00	50	**1170180000**
1.0 mm Socket (1.00-1.50)	SAI-M23-KBC-1.00-1.5	50	**1170210000**

Male, 1.5 mm

0.14-1.00

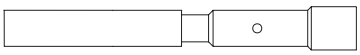


Ordering data

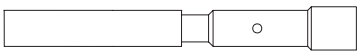
	Type	Qty.	Order No.
1.5 mm Male (0.14-1.00)	SAI-M23-KSC-1.5-0.14-1	50	**1170220000**

Female, 1.5 mm

0.14-0.56



0.56-1.00



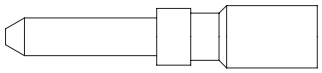
with integrated SLS® technology

Ordering data

	Type	Qty.	Order No.
1.5 mm Socket (0.14-0.56)	SAI-M23-KBC-1.5-.14-.56	50	**1170230000**
1.5 mm Socket (0.56-1.00)	SAI-M23-KBC-1.5-.56-1.0	50	**1170240000**

Male, 2 mm

0.75-2.00

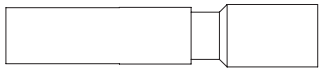


Ordering data

	Type	Qty.	Order No.
2.0 mm Male (0.75-2.00)	SAI-M23-KSC-2-0.75-2.50	50	**1170250000**

Female, 2 mm

0.75-2.00



Ordering data

	Type	Qty.	Order No.
2.0 mm Socket (0.75-2.00)	SAI-M23-KBC-2-0.75-2.50	50	**1170260000**

Technical data

Number of positions		6	7	9		12	16	17	19	
Number of contacts		6	7	8	1	12	16	17	16	3
Contact-Ø	mm	2	2	1	2	1	1	1	1	1.5

M23 inserts with solder contacts

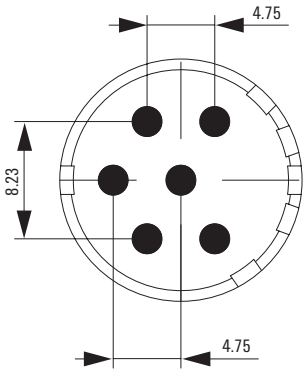
The M23 solder versions are used for PCB mount soldering or to attach to wires.

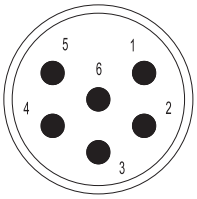
SAI M23 solder inserts with PCB solder pin and solder cups fit the existing M23 housings. This product line is an extension of the existing M23 modular signal connectors. Please also see our M23 Product Information “SAI M23 Connectors”. PCB mount solder contacts are available in different lengths to properly fit with the various housing styles offered by Weidmüller.
All contacts are gold plated for improved connectivity and increased mating cycles.



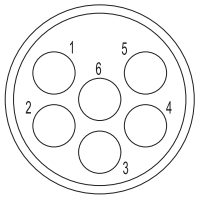
Inserts with solder contacts

6-pole





Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

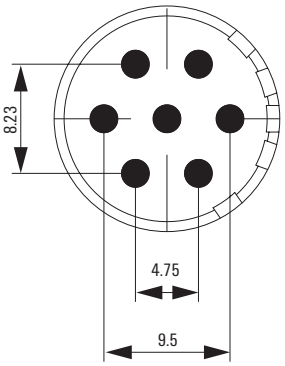
No. of poles	6
Contact number / diameter	6 x 2 mm

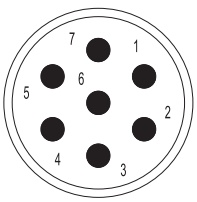
Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-6-F	1	**1224000000**
Female, solder cup	SAI-M23-BE-6-F	1	**1224010000**
Male, solder pin, 3.5 mm	SAI-M23-SE-6-3.5mm	1	**1224020000**
Female, solder pin 10 mm	SAI-M23-BE-6-10mm	1	**1224030000**
Male, solder pin 10 mm	SAI-M23-SE-6-10mm	1	**1224050000**
Male, solder pin, 17 mm	SAI-M23-SE-6-17mm	1	**1224060000**
Female, solder pin, 17 mm	SAI-M23-BE-6-17mm	1	**1224040000**

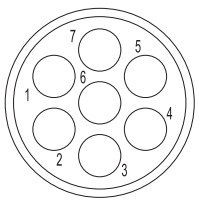
PCB hole-Ø: 1.5 mm

7-pole





Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	7
Contact number / diameter	7 x 2 mm

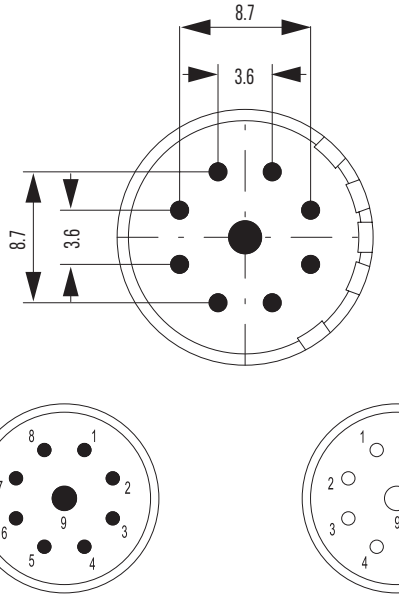
Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-7-F	1	**1224070000**
Female, solder cup	SAI-M23-BE-7-F	1	**1224080000**
Male, solder pin, 3.5 mm	SAI-M23-SE-7-3.5mm	1	**1224090000**
Female, solder pin 10 mm	SAI-M23-BE-7-10mm	1	**1224100000**
Male, solder pin 10 mm	SAI-M23-SE-7-10mm	1	**1224120000**
Male, solder pin, 17 mm	SAI-M23-SE-7-17mm	1	**1224130000**
Female, solder pin, 17 mm	SAI-M23-BE-7-17mm	1	**1224110000**

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

Inserts with solder contacts

9-pole



Male insert on plug side

Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

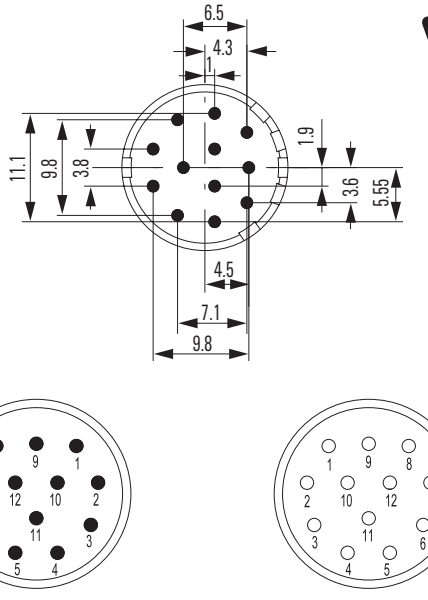
No. of poles	9
Contact number / diameter	8 x 1 mm + 1 x 2 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-9-F	1	1224490000
Female, solder cup	SAI-M23-BE-9-F	1	1224500000
Male, solder pin, 3.5 mm	SAI-M23-SE-9-3.5mm	1	1224510000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm	1	1224540000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm	1	1224520000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm	1	1224550000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm	1	1224530000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-9-F-G	1	1224730000
Female, solder cup	SAI-M23-BE-9-F-G	1	1224740000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm-G	1	1224770000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm-G	1	1224750000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm-G	1	1224780000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm-G	1	1224760000

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
2 mm contact = 1.5 mm

12-pole



Male insert on plug side

Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	12
Contact number / diameter	12 x 1 mm

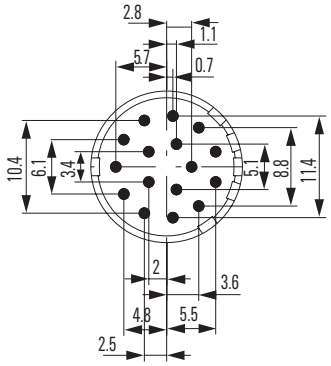
Ordering data

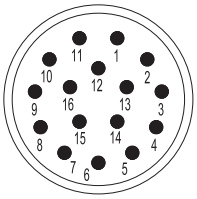
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-12-F	1	1224140000
Female, solder cup	SAI-M23-BE-12-F	1	1224150000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm	1	1224160000
Male, solder cup, 3.5 mm, with PE contact pin 9	SAI-M23-SE-12-F-PE	1	1224180000
Female, solder cup 3.5 mm, with PE contact pin 9	SAI-M23-BE-12-F-PE	1	1224190000
Male, solder pin, 10 mm	SAI-M23-SE-12-10mm	1	1224220000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm	1	1224170000
Male, solder pin, 17 mm	SAI-M23-SE-12-17mm	1	1224230000
Female, solder pin, 17 mm	SAI-M23-BE-12-17mm	1	1224210000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-12-F-G	1	1224560000
Female, solder cup	SAI-M23-BE-12-F-G	1	1224570000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm-G	1	1224580000
Male, solder pin, 10 mm	SAI-M23-SE-12-12mm-G	1	1224630000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm-G	1	1224590000
Male, solder cup, 10 mm, with PE contact pin 9	SAI-M23-SE-12-10mm-PE-G	1	1224620000
Female, solder cup, 10 mm, with PE contact pin 9	SAI-M23-BE-12-10mm-PE-G	1	1224610000
Male, Solder pin, 17 mm	SAI-M23-SE-12-17mm-G	1	1224640000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

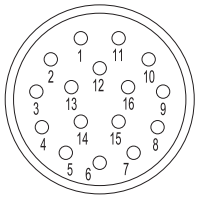
Inserts with solder contacts

16-pole





Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

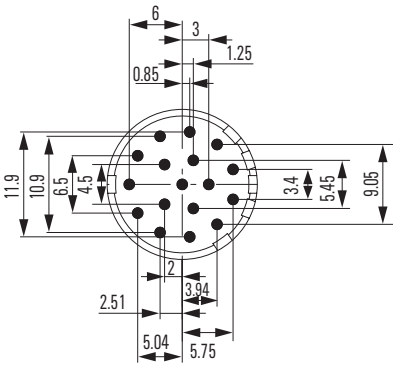
No. of poles	16
Contact number / diameter	6 x 1 mm

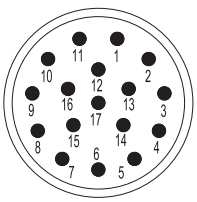
Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-16-F	1	1224240000
Female, solder cup	SAI-M23-BE-16-F	1	1224250000
Male, solder pin, 3.5 mm	SAI-M23-SE-16-3.5mm	1	1224260000
Female, solder pin 10 mm	SAI-M23-BE-16-10mm	1	1224270000
Male, solder pin 10 mm	SAI-M23-SE-16-10mm	1	1224290000
Male, solder pin, 17 mm	SAI-M23-SE-16-17mm	1	1224310000
Female, solder pin, 17 mm	SAI-M23-BE-16-17mm	1	1224280000

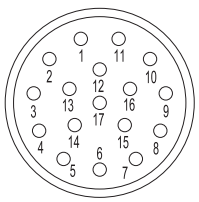
PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

17-pole





Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	17
Contact number / diameter	17 x 1 mm

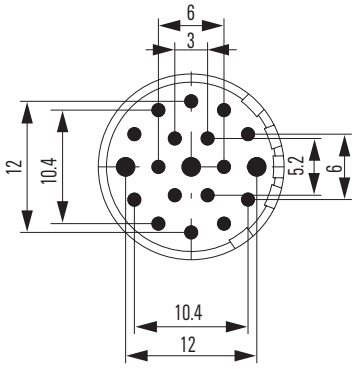
Ordering data

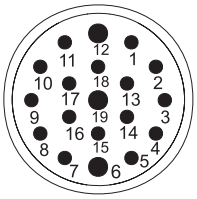
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-17-F	1	1224320000
Female, solder cup	SAI-M23-BE-17-F	1	1224330000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm	1	1224340000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm	1	1224370000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm	1	1224350000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm	1	1224380000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm	1	1224360000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-17-F-G	1	1224650000
Female, solder cup	SAI-M23-BE-17-F-G	1	1224660000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm-G	1	1224670000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm-G	1	1224710000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm-G	1	1224680000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm-G	1	1224720000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm-G	1	1224690000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

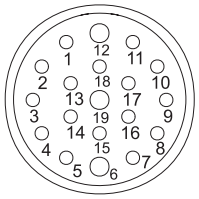
Inserts with solder contacts

19-pole





Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

No. of poles	19
Contact number / diameter	16 x 1 mm + 3 x 1.5 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-19-F	1	**1224390000**
Female, solder cup	SAI-M23-BE-19-F	1	**1224400000**
Male, solder pin, 3.5 mm	SAI-M23-SE-19-3.5mm	1	**1224410000**
Male, solder cup, 3.5 mm, with PE contact pin 12	SAI-M23-SE-19-3.5mmPE12	1	**1224460000**
Female, solder cup 3.5 mm, with PE contact pin 12	SAI-M23-BE-19-3.5mm-PE	1	**1224440000**
Male, solder pin, 10 mm	SAI-M23-SE-19-10mm	1	**1224470000**
Female, solder pin, 10 mm	SAI-M23-BE-19-10mm	1	**1224420000**
Male, solder cup, 10 mm, with PE contact pin 12	SAI-M23-SE-19-10mm-PE	1	**1224430000**
Male, solder pin, 17 mm	SAI-M23-SE-19-17mm	1	**1224480000**
Female, solder pin, 17 mm	SAI-M23-BE-19-17mm	1	**1224450000**

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
1.5 mm contact = 1.5 mm

Overview of inserts and housings

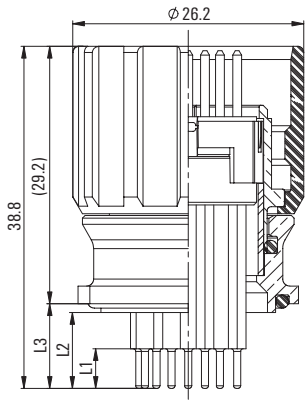
This table shows the different combination possibilities of the inserts and solder pins, with housings.

Solder pin affiliation

Type	Order No.	Solder pin length		
		3.5 mm	10 mm	17 mm
SAIE-M23-S-VW	**1169940000**		X	X
SAIE-M23-S-RM	**1169950000**			X
SAIE-M23-S-EM	**1169970000**			X
SAIE-M23-S-HW	**1169990000**		X	X

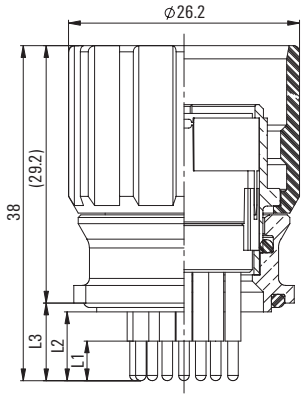
Device connector with knurled nut

Male insert



Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	8.6	9.6

Female insert



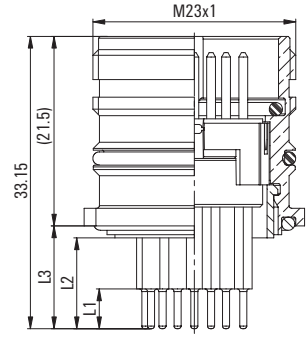
Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	7.8	8.8

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-RM	1	**1169950000**

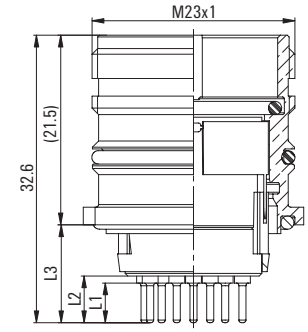
Device connector (front panel)

Male insert



Male insert	L1	L2	L3
10 mm	4.5	10.3	11.65
17 mm	4.5	17.3	18.65

Female insert



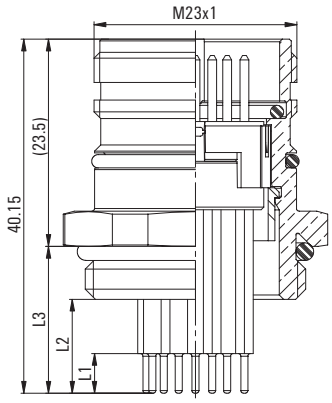
Female insert	L1	L2	L3
10 mm	4.5	5.3	11.1
17 mm	4.5	12.3	18.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	**1169940000**

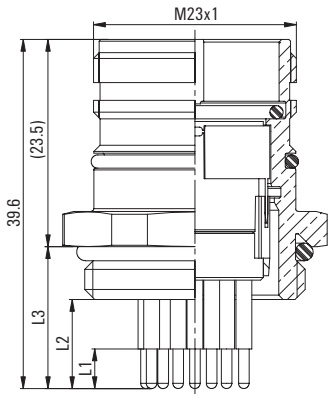
Device connector (single-hole mount)

Male insert



Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.65	16.65

Female insert



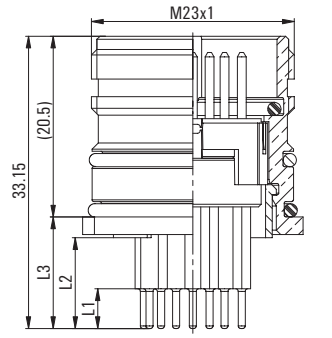
Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.1	16.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM	1	**1169970000**

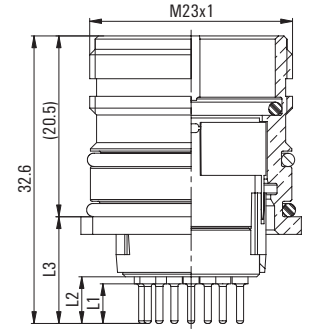
Device connector (back panel)

Male insert



Male insert	L1	L2	L3
10 mm	4.5	10.3	12.65
17 mm	4.5	17.3	19.65

Female insert



Female insert	L1	L2	L3
10 mm	4.5	5.3	12.1
17 mm	4.5	12.3	19.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-HW	1	**1169990000**

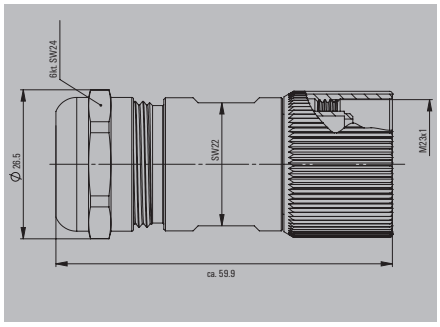
M23 connector for signal and power transmission

Stainless steel enclosure

For cables with outer diameter: 7 - 12 mm

Cable connector for signal transmission



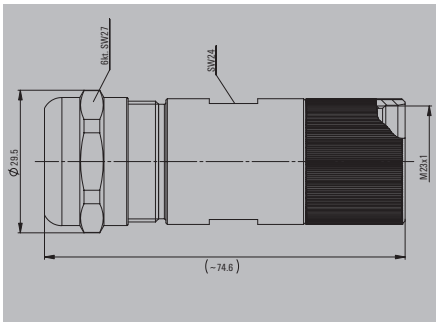


Ordering data

Type	Qty.	Order No.
SAI-M23-GS-7/12-VA	1	**1452440000**

Cable connector for power transmission





Ordering data

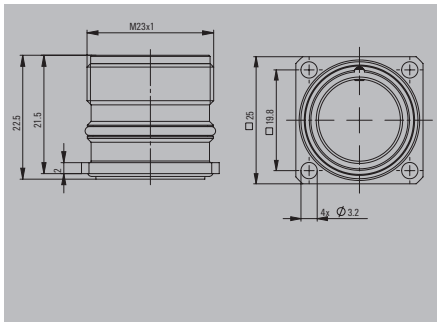
Type	Qty.	Order No.
SAI-M23-GS-L-7/12-VA	1	**1479410000**

Built-in connectors, stainless steel

Device connector for signal transmission

Front panel





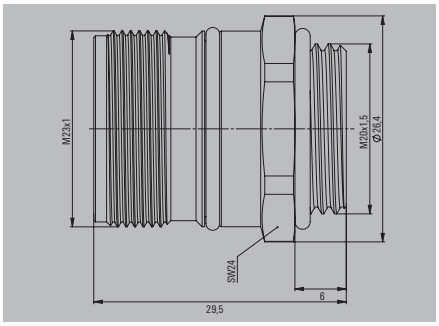
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW-VA	1	1452450000

Device connector for signal transmission

Single hole





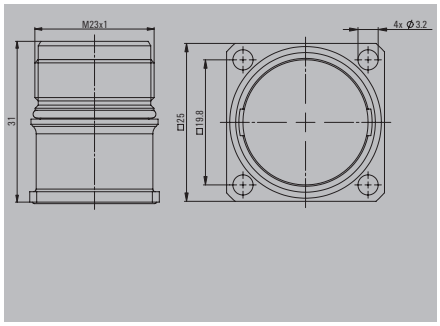
Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM-VA	1	1479400000

Device connector for power transmission

Front panel





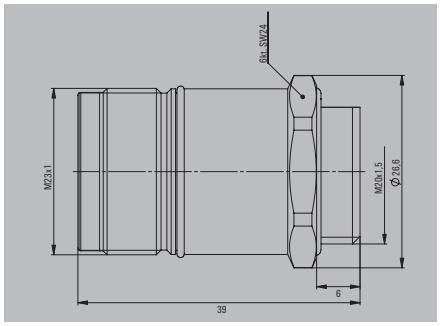
Ordering data

Type	Qty.	Order No.
SAIE-M23-L-VW-VA	1	1483880000

Device connector for power transmission

Single hole





Ordering data

Type	Qty.	Order No.
SAIE-M23-L-EM-VA	1	1479420000

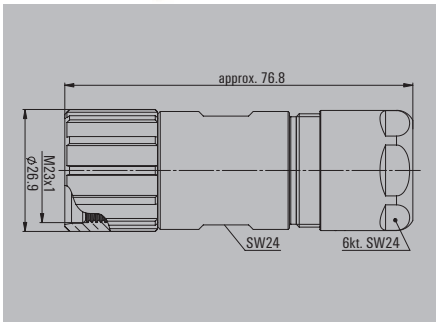
M23 connector for power transmission

Housing

For cables with outer diameter: 7 - 12 mm

Cable plug-in connector



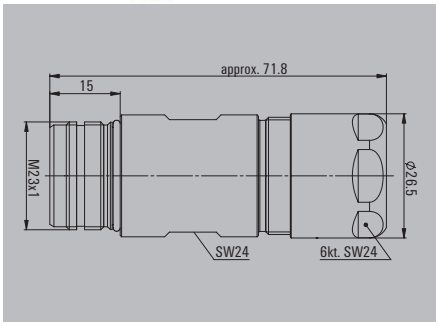


Ordering data

Type	Qty.	Order No.
SAI-M23-GS-L-7/12	1	1995800000

Coupling plug-in connector



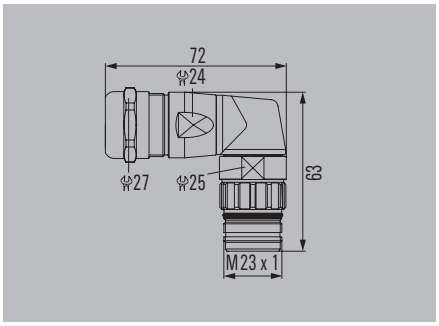


Ordering data

Type	Qty.	Order No.
SAI-M23-KS-L-7/12	1	1170270000

Angle plug-in connector



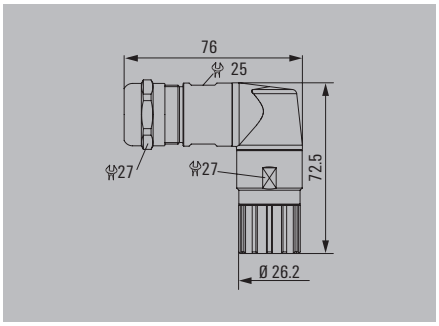


Ordering data

Type	Qty.	Order No.
SAI-M23-GSW-L-7/12	1	1170280000

Angle plug-in connector coupling





Ordering data

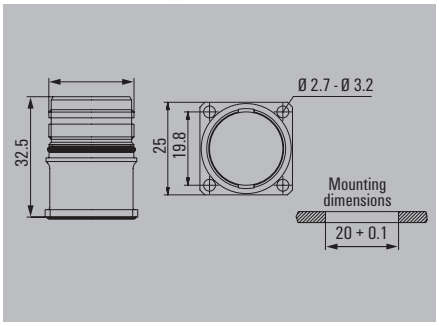
Type	Qty.	Order No.
SAI-M23-KSW-L-7/12	1	1170290000

Built-in connector

With 3.2 mm fixing holes

Device connector (front wall)



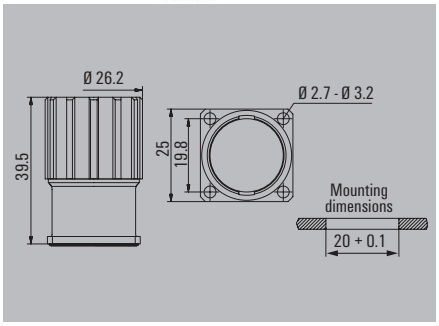


Ordering data

Type	Qty.	Order No.
SAIE-M23-L-VW	1	1170300000

Device connector with knurled nut



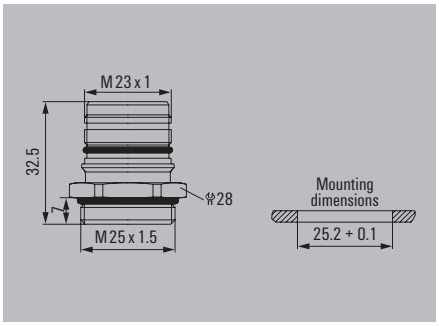


Ordering data

Type	Qty.	Order No.
SAIE-M23-L-RM	1	1170310000

Device connector, single-hole mount



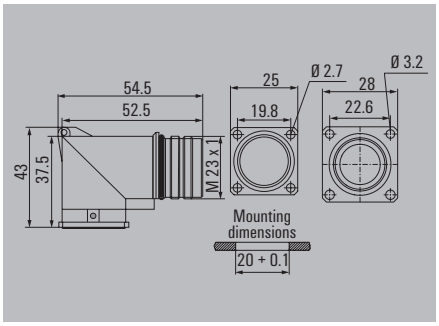


Ordering data

Type	Qty.	Order No.
SAIE-M23-L-EM	1	1170320000

Device connector, angled



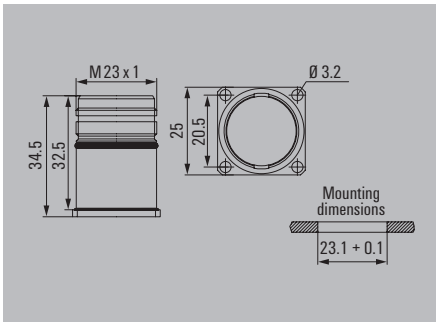


Ordering data

Type	Qty.	Order No.
SAIE-M23-L-W	1	1170330000

Device connector, rear wall



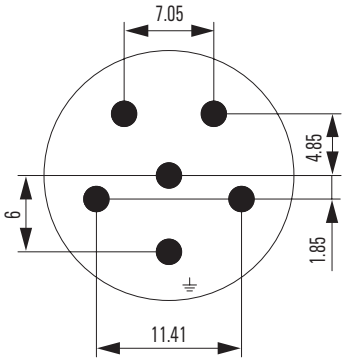


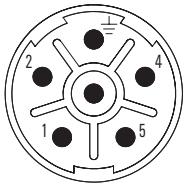
Ordering data

Type	Qty.	Order No.
SAIE-M23-L-HW	1	1170340000

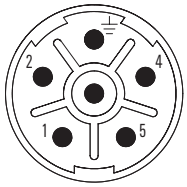
Inserts

5 + PE





6 times male, 2 mm



6 times female, 2 mm

Ordering data

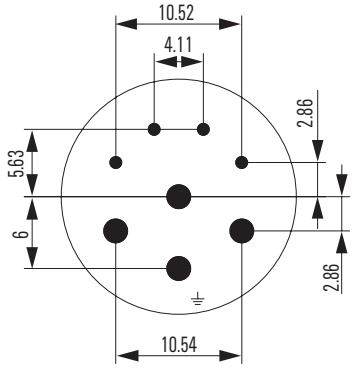
	Type	Qty.	Order No.
6 times male 2 mm	SAI-M23-SE-L-6	1	**1170350000**
6 times female, 2 mm	SAI-M23-BE-L-6	1	**1170370000**

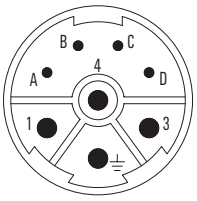
Contact partitioning

Power connectors Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

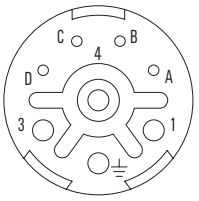
Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

4/4





4 times 1-mm male and 4 times 2-mm male



4 times 1-mm female and 4 times 2-mm female

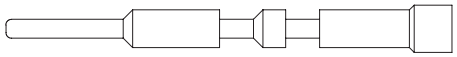
Ordering data

	Type	Qty.	Order No.
4 times 1-mm male and 4 times 2-mm male	SAI-M23-SE-L-4/4	1	**1170380000**
4 times 1-mm female and 4 times 2-mm female	SAI-M23-BE-L-4/4	1	**1995810000**

Contacts

Male, 1 mm

0.25 – 1.00

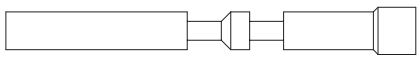


Ordering data

	Type	Qty.	Order No.
1 mm Male (0.25-1.00)	SAI-M23-KSC-0.25-1.0	50	1170390000

Female, 1 mm

0.25 – 1.00



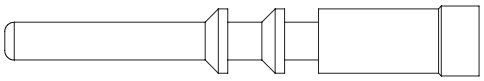
with integrated SLS® technology

Ordering data

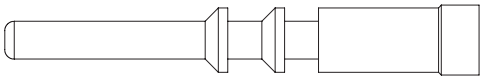
	Type	Qty.	Order No.
1 mm Socket (0.25-1.00)	SAI-M23-KBC-0.25-1.0	50	1995830000

Male, 2 mm

0.75 – 2.5



2.5 – 4.00

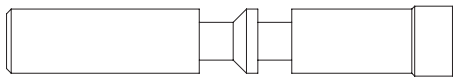


Ordering data

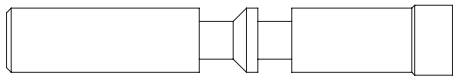
	Type	Qty.	Order No.
2 mm Male (0.75-2.5)	SAI-M23-KSC-L-0.75-2.5	50	1170400000
2 mm Male (2.5-4.00)	SAI-M23-KSC-L-2.5-4.0	50	1170410000

Female, 2 mm

0.75 – 2.5



2.5 – 4.00



Ordering data

	Type	Qty.	Order No.
2 mm Socket (0.75-2.5)	SAI-M23-KBC-L-0.75-2.5	50	1995820000
2 mm Socket (2.5-4.00)	SAI-M23-KBC-L-2.5-4.0	50	1170420000

Technical data

No. of poles		5 + PE	4/4	
Number of contacts		6	4	4
Contact-Ø	mm	2	1	2

M23 protective caps

M23 protective caps

M23 protective cap

Brass, external thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M	1	1244790000

M23 protective cap

Brass, external thread with lanyard
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M-FS	1	1170810000

M23 protective cap

Plastic, external thread
IP20



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-M-P	1	1408280000

M23 protective cap

Brass, inner thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F	1	1416410000

M23 protective cap

Brass, inner thread with lanyard
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F-FS	1	1417920000

M23 protective cap

Plastic, inner thread
IP20



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-F-P	1	1408270000

M23 protective caps, stainless steel

M23 protective cap

Stainless steel, external thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-AG	1	2125220000

M23 protective cap

Stainless steel, external thread with lanyard
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-AG-FS	1	2125950000

M23 protective cap

Brass, inner thread
IP67 / IP69K



Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-IG	1	2124610000

M23 protective cap

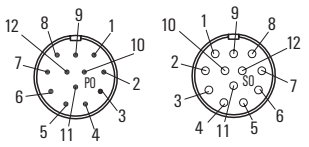
Brass, inner thread with lanyard
IP67 / IP69K



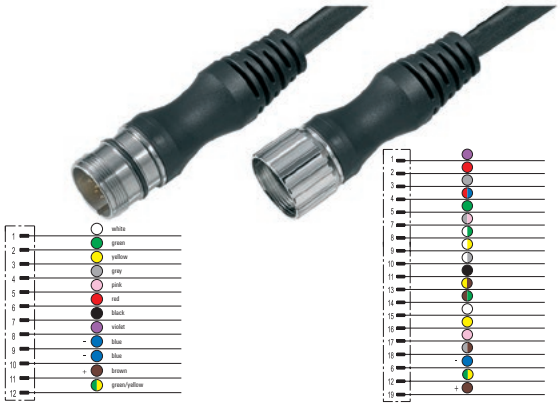
Ordering data

Type	Qty.	Order No.
SAI-M23-SK-VA-IG-FS	1	2124860000

M23 cables



Male Female



Ordering data

Male, straight	Male 12-pole	Male 19-pole	
1 m	SAIS-M23-12P-ST-1,0M **1906280100**	SAIS-M23-19P-ST-1,0M **1818160100**	
Male, angled			
1 m	SAIS-M23-12P-AN-1,0M **1906290100**	SAIS-M23-19P-AN-1,0M **1818090100**	
Female, straight			
1 m	SAIB-M23-12P-ST-1,0M **1886440100**	SAIB-M23-19P-ST-1,0M **1818180100**	
Female, angled			
1 m	SAIB-M23-12P-AN-1,0M **1877440100**	SAIB-M23-19P-AN-1,0M **1818140100**	
Note	ST = straight AN = 90° elbow	Other versions on request	

Standard cable lengths

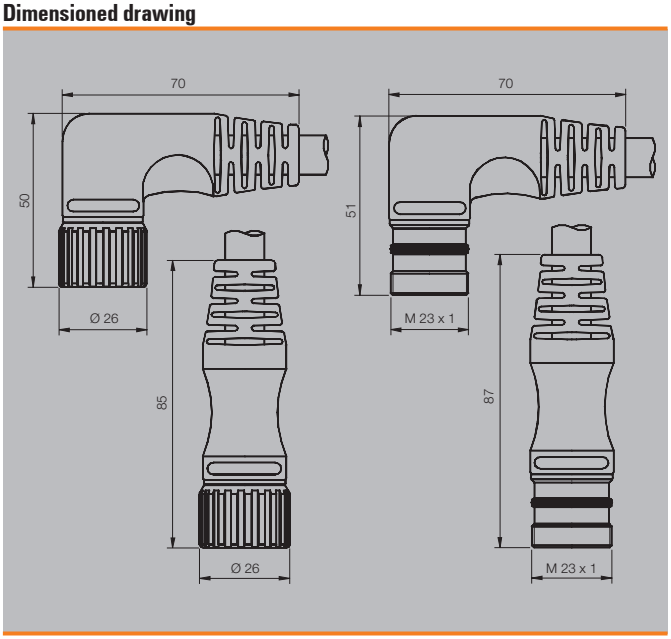
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	8 A
Protection degree	IP67
Wire cross section	12-pole (8x0.34+3x0.75)/19-pole (16x0.34+3x0.75)
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	150 V

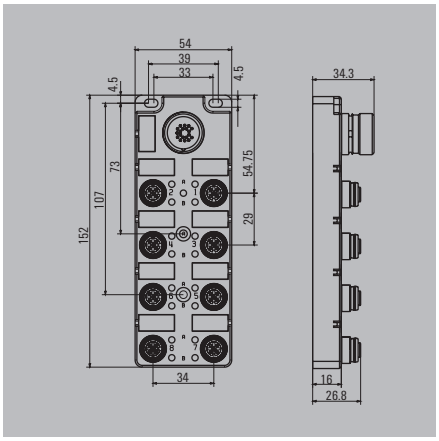
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



With M23 outlet





Ordering data

Complete modules	
4 plug-in stations	
8 plug-in stations	
Note	

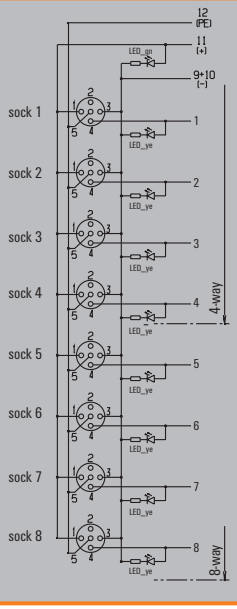
SAI-4/8-S		4-pole
Type	**Qty.**	**Order No.**
SAI-4-S 4P FC 1993	1	**1847960000**
SAI-8-S 4P FC	1	**1847920000**
Other versions on request		

SAI-4/8-S		5-pole
Type	**Qty.**	**Order No.**
SAI-4-S 5P FC	1	**1847970000**
SAI-8-S 5P FC	1	**1848040000**
Other versions on request		

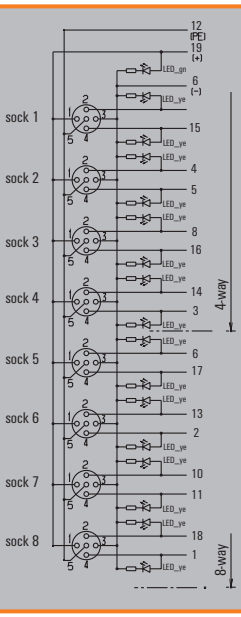
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



Wiring diagram

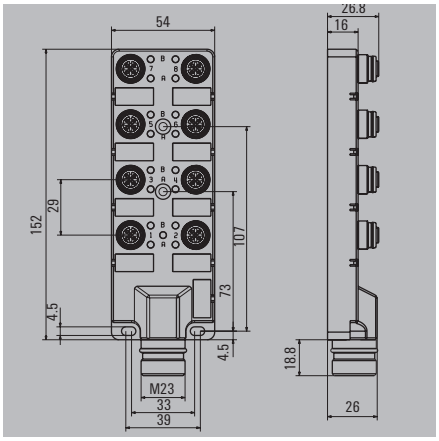


L

SAI distributor M12 with M23

With M23 outlet on face end





Ordering data

Complete modules	
	8 plug-in stations
Note	

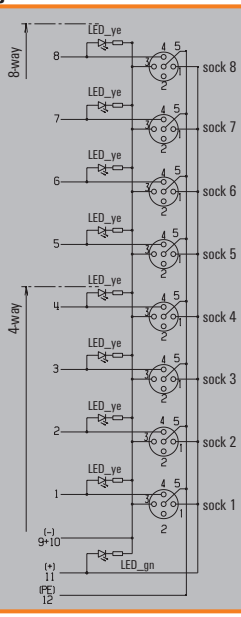
SAI-4/8-SH		4-pole
Type	**Qty.**	**Order No.**
SAI-8-SH 4P FC	1	**1859120000**

SAI-4/8-SH		5-pole
Type	**Qty.**	**Order No.**
SAI-8-SH 5P FC	1	**1859140000**

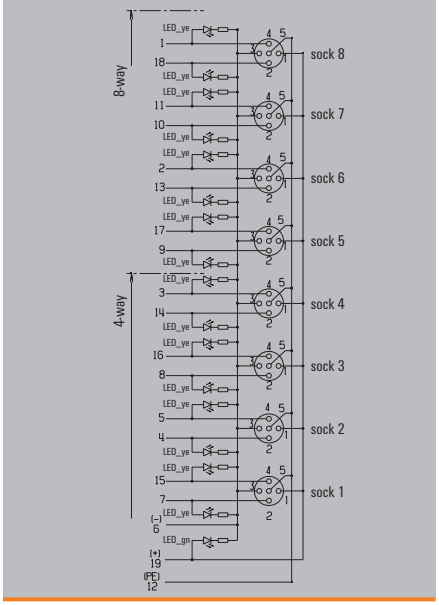
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Wiring diagram



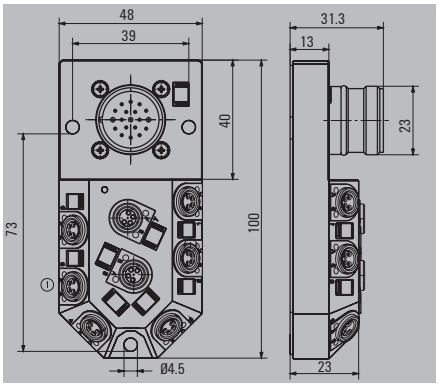
Wiring diagram



With M23 outlet

SAI-4/8-M23





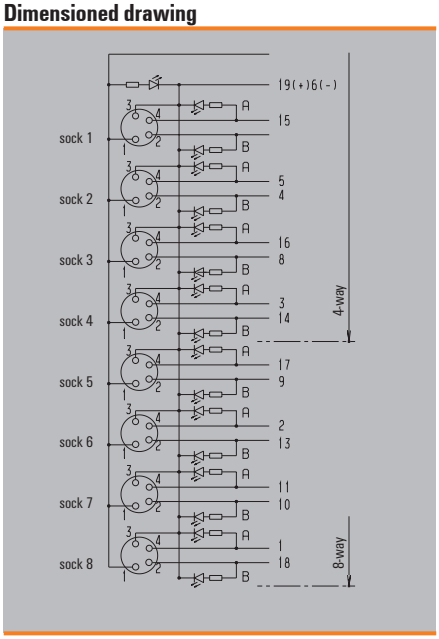
Ordering data

SAI-4/8-M23		M23
Type	**Qty.**	**Order No.**
4-pole		
4 plug-in stations	1	**1784660000**
8 plug-in stations	1	**1784650000**
Note		
Other versions on request		

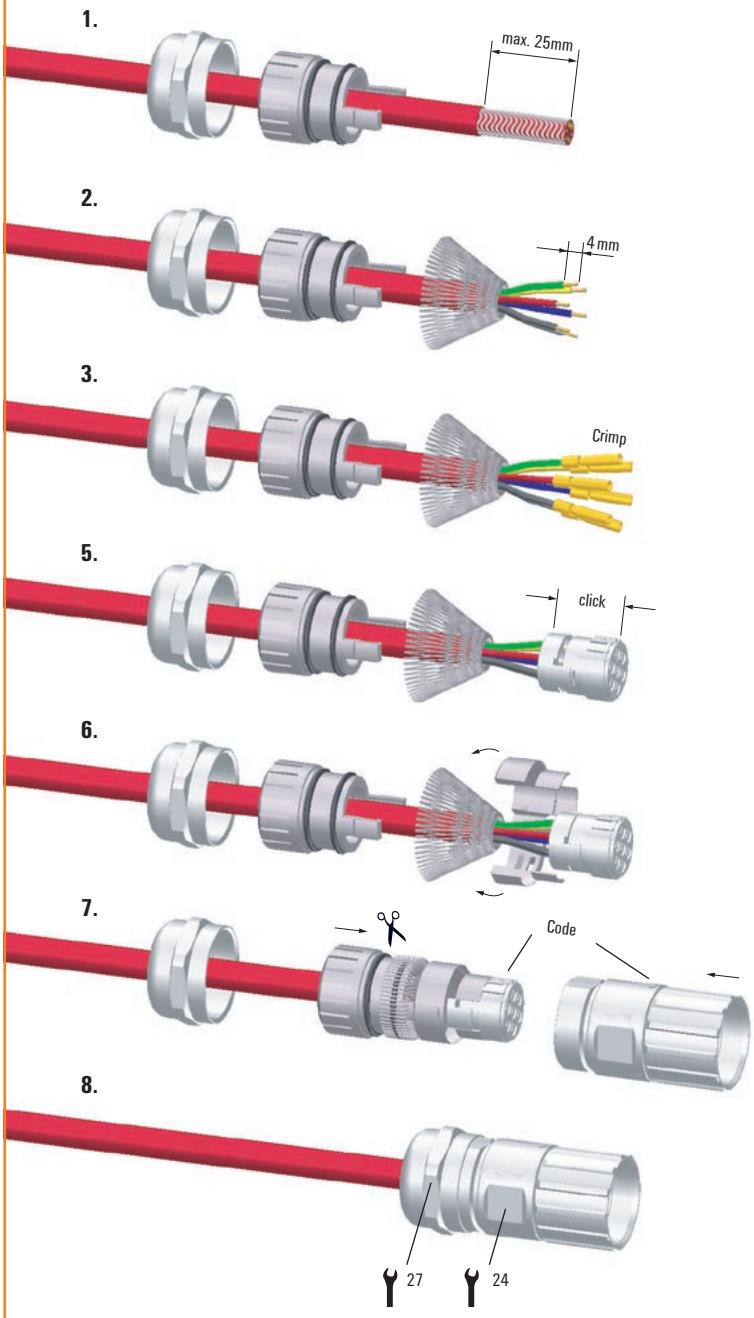
Technical data

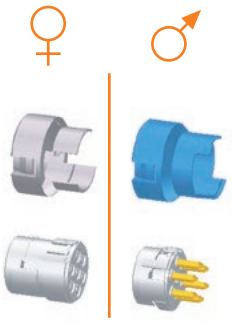
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Nickel-plated CuZn
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	No

Dimensioned drawing

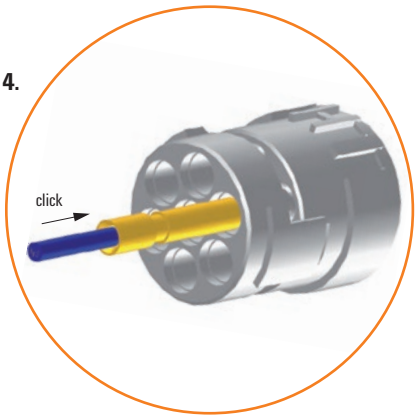


Cable connector





4.

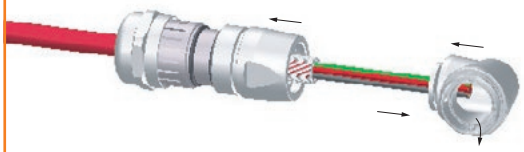


Angled connector

1.



2.



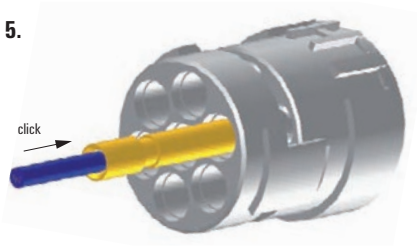
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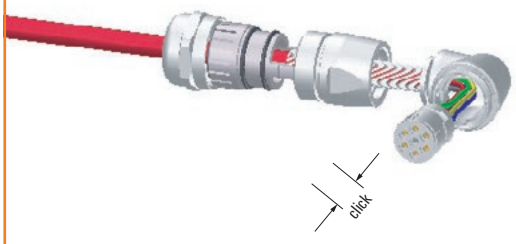
4.



5.



6.



7.

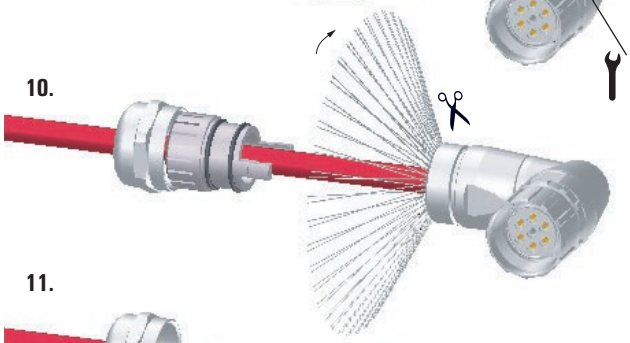


8.

9.



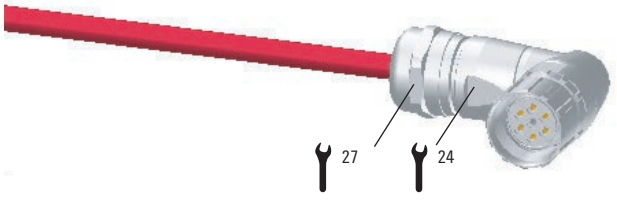
10.



11.

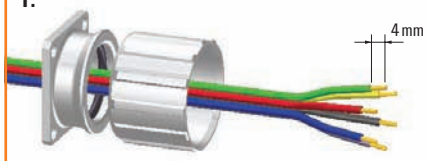


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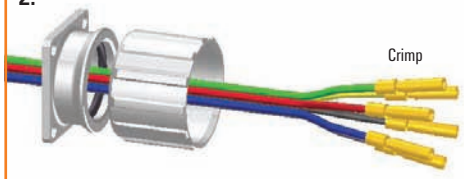


Device connector with knurled nut

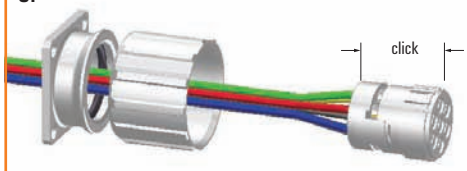
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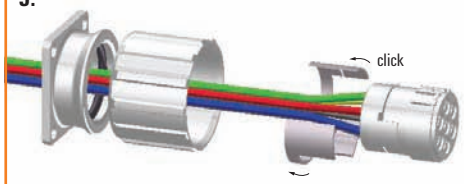
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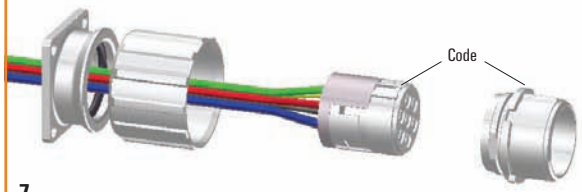
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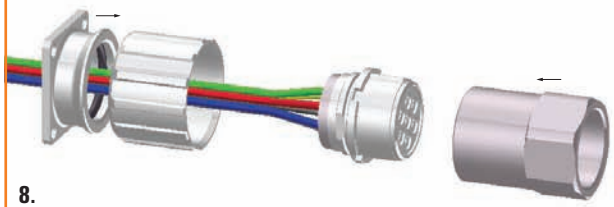
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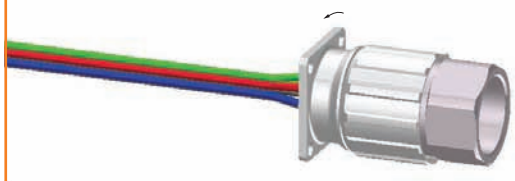
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7.



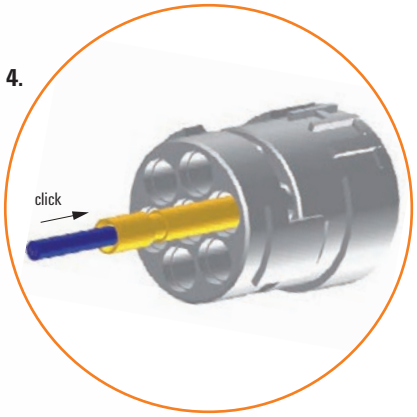
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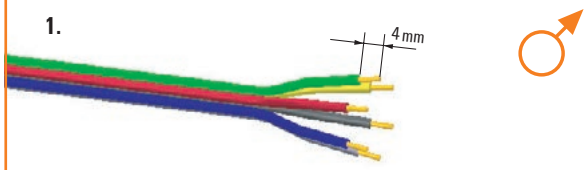
1238870000

4.



Device connector, male

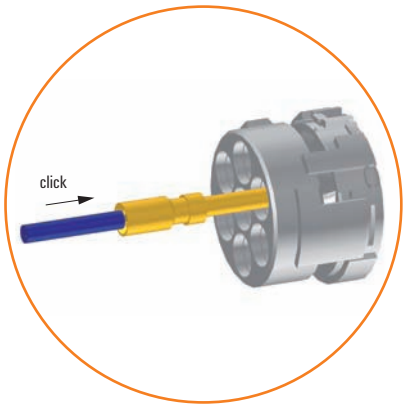
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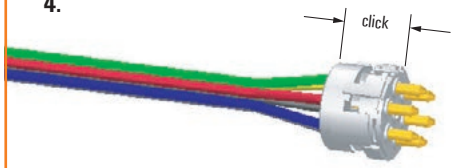
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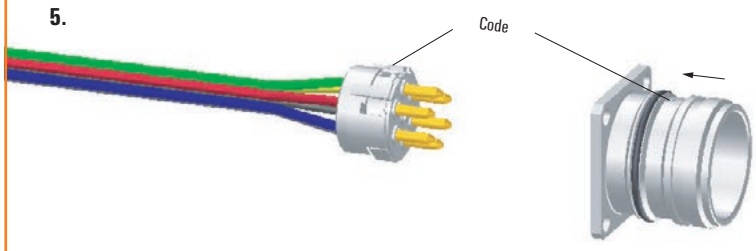
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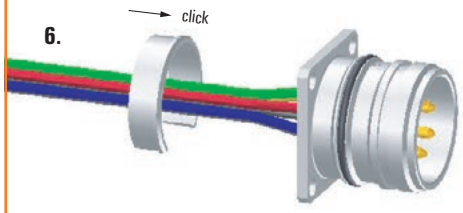
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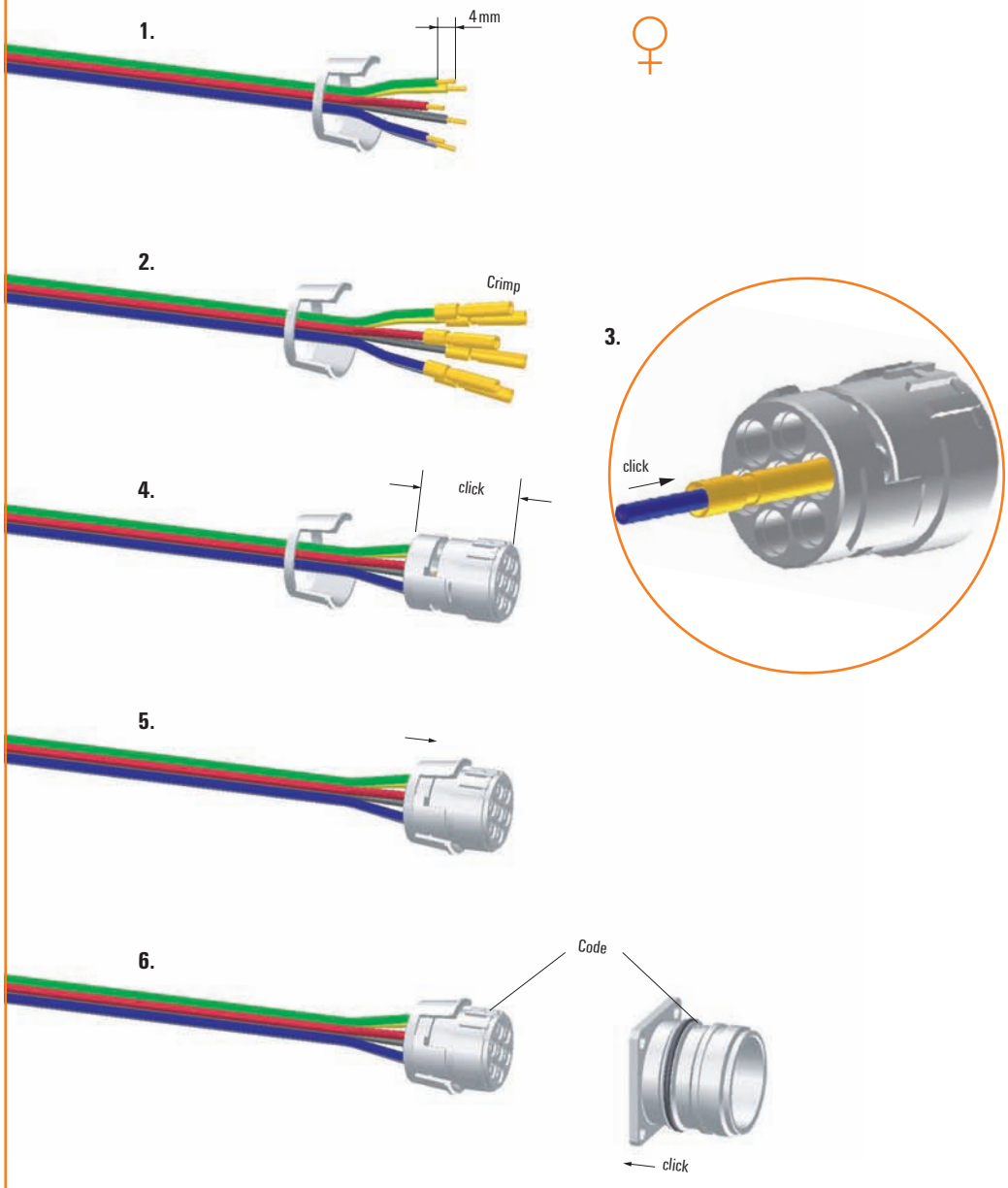
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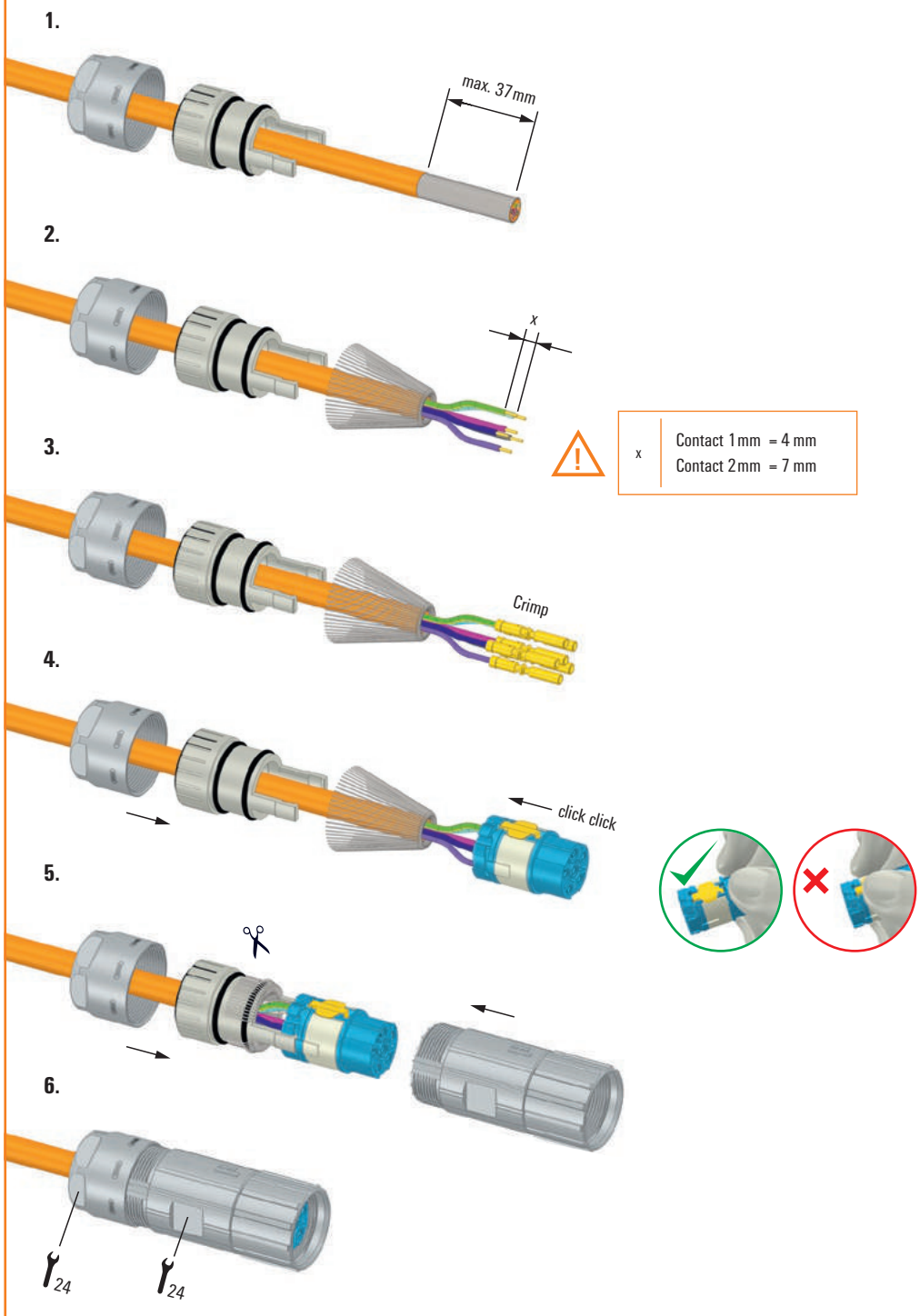
6.



Device connector, female

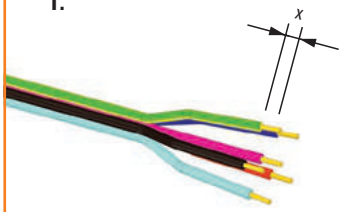


Cable connector



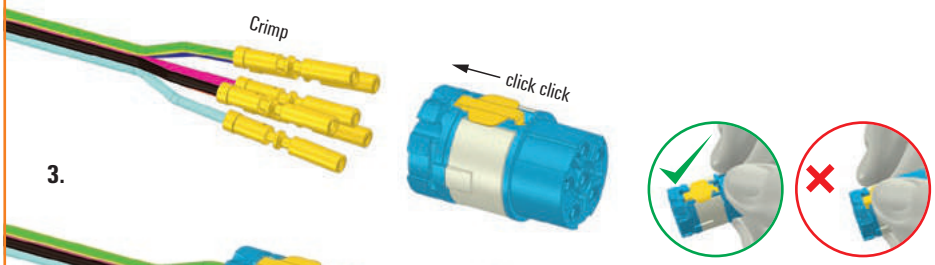
Device connector

1.

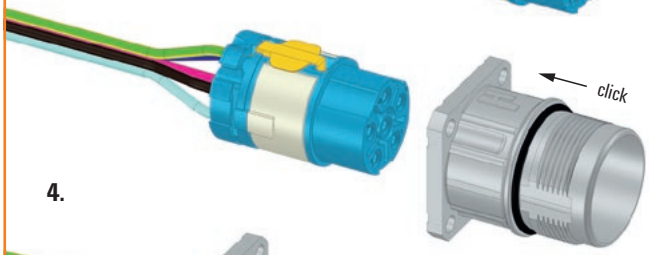


x	Contact 1 mm = 4 mm Contact 2 mm = 7 mm

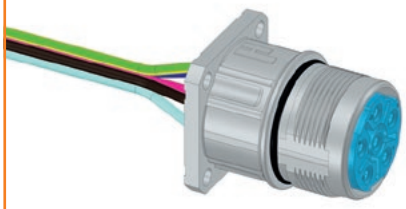
2.



3.

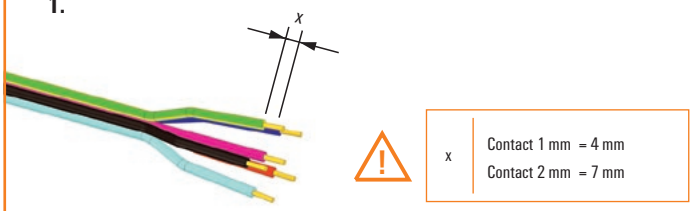


4.



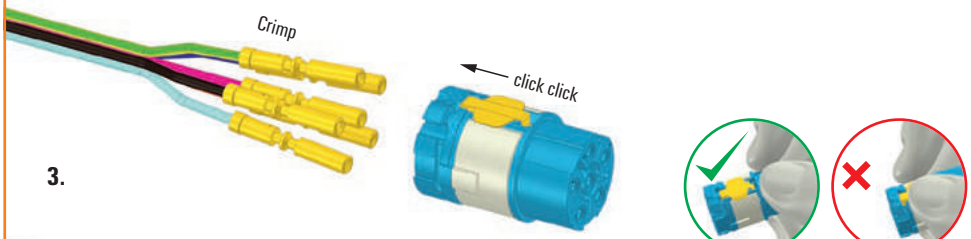
Device connector

1.

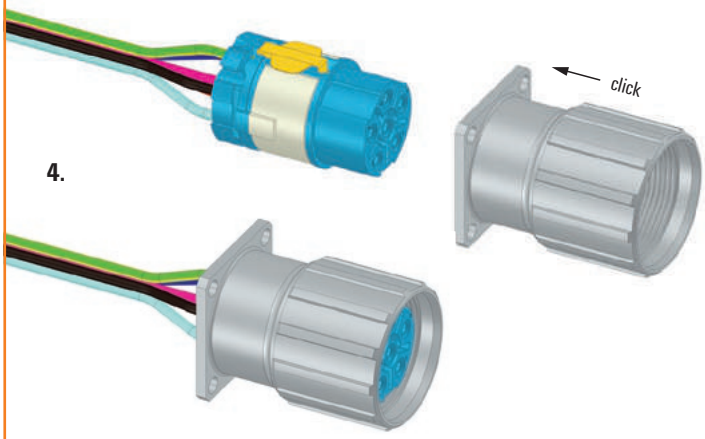


2.

3.

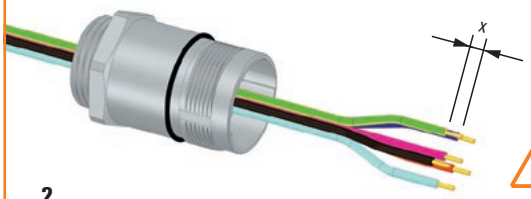


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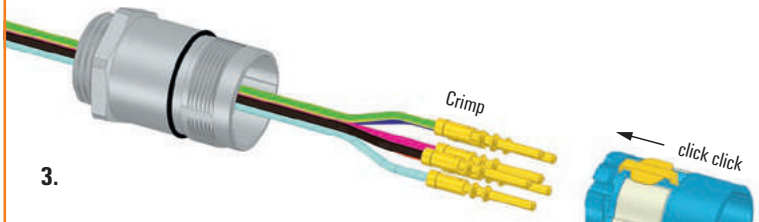
Device connector, single-hole mount

1.

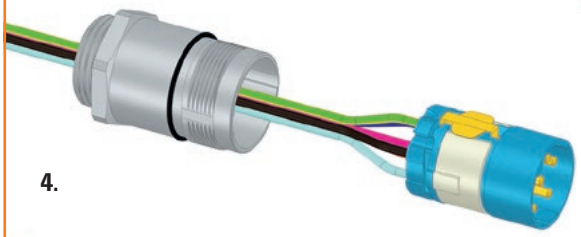


x	Contact 1 mm = 4 mm Contact 2 mm = 7 mm

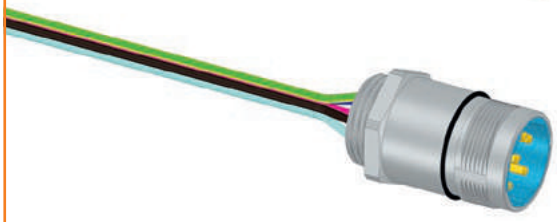
2.



3.



4.

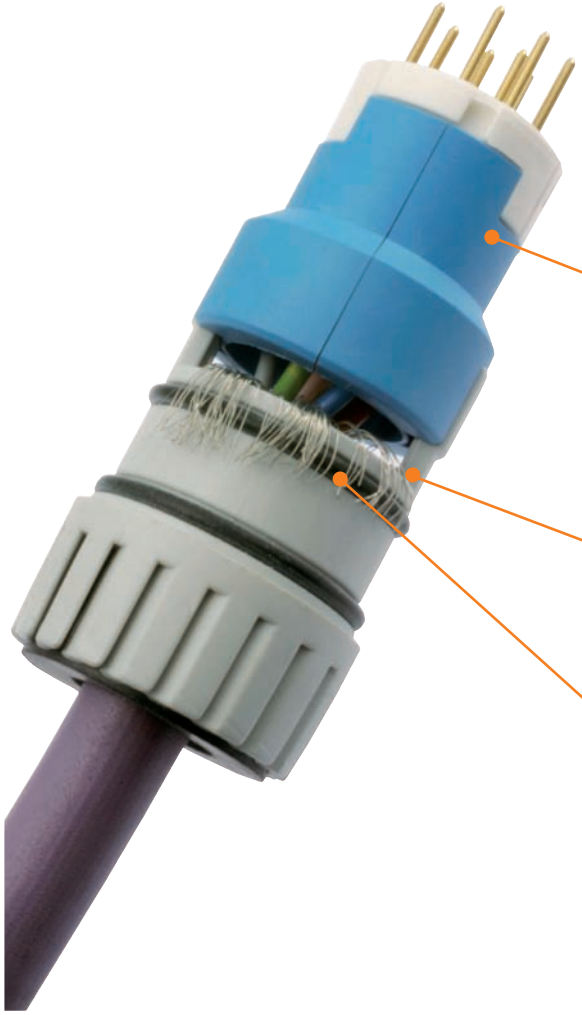


M23 connector

Easy to assemble

- An integrated approach for all plug sizes
- A patented assembly module consisting of terminal insert and insulating body
- Assembly and shield connection combined into one step
- Simple, quick and safe assembly in the housing





Flexibility



Total modularity means flexibility Male or female inserts can even be used with any of the housing types for the M23 power connectors.



The concise layout of this connector range and the reduced number of individual parts has clear benefits for the user – quicker assembly and easier installation.



The spacer sleeves are colour-coded for the male and female inserts.



Assembly and shield connection are combined into one step.



The snap-on terminal insert protects the cable outlet from getting twisted.

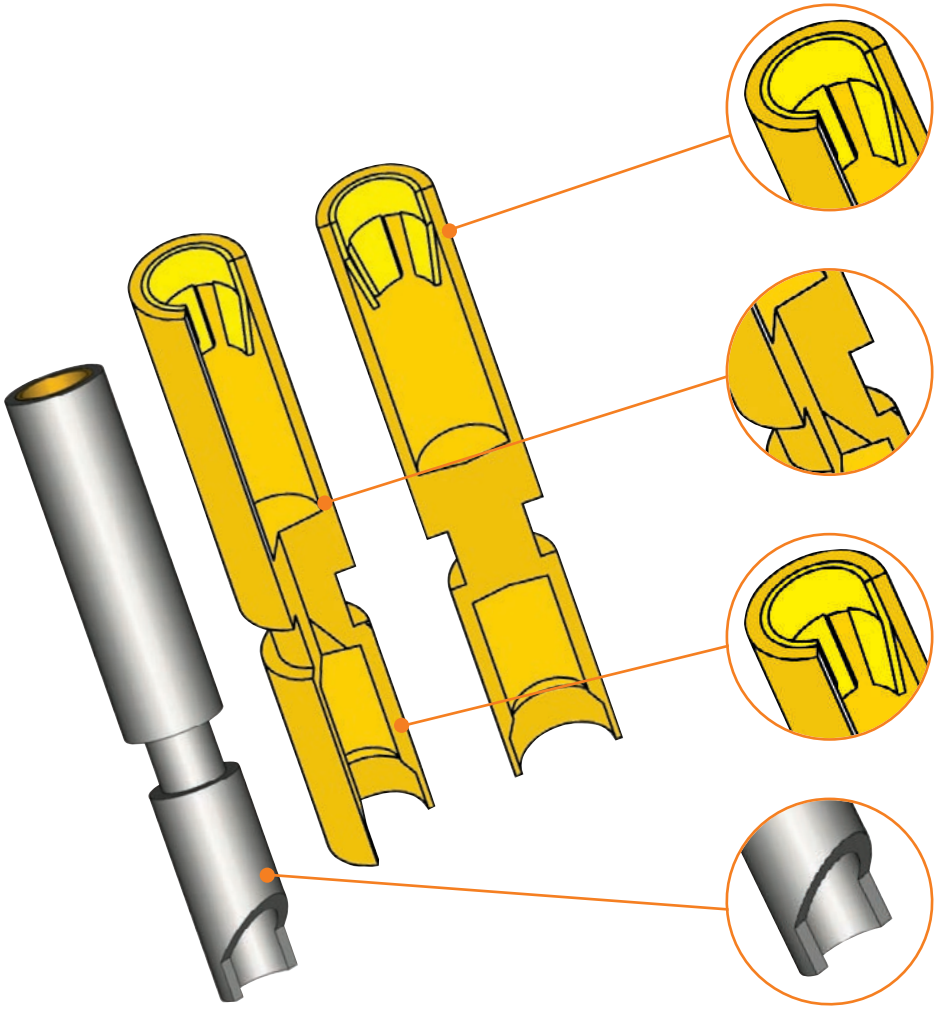


The variable shield connection ensures secure EMC protection for both light and heavy shielding braid.

Secure contact with SLS® technology

The new, premium-grade contact – the spring-loaded socket (SLS®) system

- Integrated spring takes the pin contact and clasps it radially
- Outstanding electrical characteristics with the most secure contact
- Quick assembly: solder contacts already tin-plated



The radially clasped spring mechanism made from copper beryllium ensures minimal insertion force and high number of plugging cycles.

The cylindrical outer shape of the female contact guarantees that the plugging process is properly centred.

Gold-plated contact surfaces provides minimal contact resistances.

Tin plated surfaces on the solder contacts helps to save time during assembly.

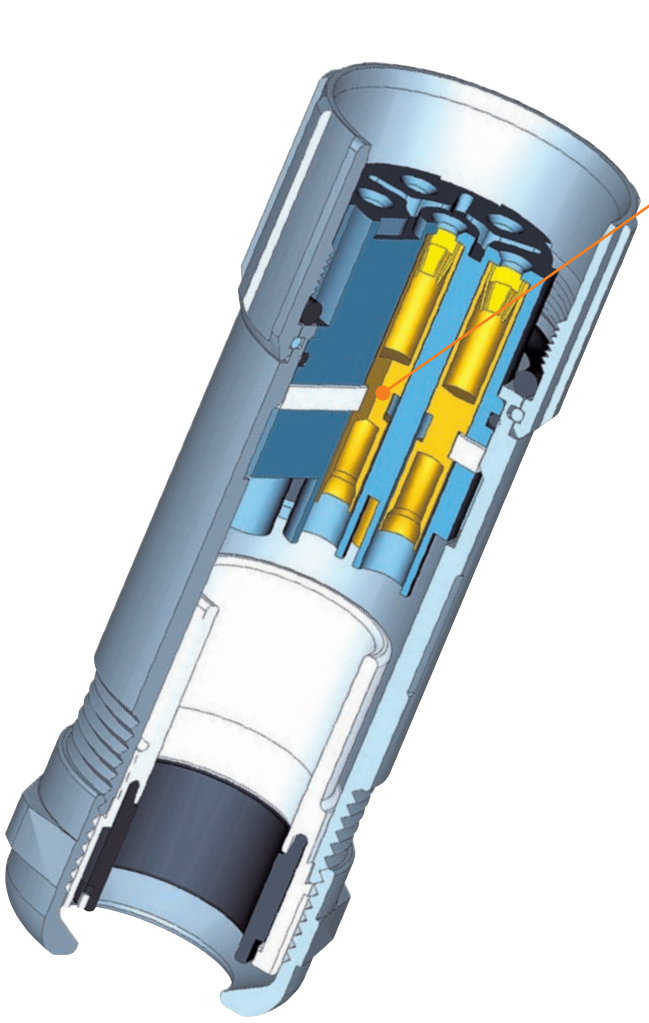
Euro-Lock system® for a secure mount

Euro-Lock system® – the patented interlock system

- The integrated support clip locks the contacts into the insulating body
- Contacts are easy to install and remove
- No special tool is required

High-quality cable gland

- Replaceable male or female inserts in each type of housing
- Integrated strain relief mechanism with patented HSK cable gland
- Internationally certified, with proven and established quality





Secure contact interlock



Quick assembly



Simple removal of contacts



Complete installation and removal without any special tools

Remote I/O data line – Plug-in connectors and modules

Remote I/O data line – Plug-in connectors and modules	Introduction	M.2
	PROFIBUS-DP - cables	M.4
	PROFIBUS-DP - connectors	M.10
	PROFIBUS D-Sub - connectors	M.13
	Fieldbus distributor – Overview	M.20
	PROFIBUS-DP - FBCon T-distributor	M.22
	PROFIBUS-PA - cables	M.26
	PROFIBUS PA - connectors	M.31
	PROFIBUS-PA - FBCon T-distributor	M.34
	PROFIBUS-PA - FBCon T-distributor with surge protection	M.40
	PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)	M.46
	ASI - Cables	M.54
	ASI - T-piece	M.55
	CANopen & DeviceNet™ - cables	M.56
	CANopen & DeviceNet™ - connectors	M.60
	CAN-BUS D-Sub – connectors	M.61
	EtherCat - lines (M8)	M.67
	Ethernet cables	M.68
	Ethernet plug-in connector	M.76
	Customisable plug-in connectors	M.78
	Ethernet plug-in connectors	M.81
	FOUNDATION Fieldbus - connector (7/8")	M.82
	Accessories cable glands	M.83

Bus cables

The bus system lies at the heart of automation engineering. High quality products are essential here, if you hope to achieve long term, smooth functionality.
It's not only the slaves and controllers that play a significant role; the type of cables and connection mechanisms in use are also very important. Weidmüller bus cables are the ideal solution. The products, which we manufacture ourselves, (used, for example, in the Profibus, Industrial Ethernet and CANopen/DeviceNet™ sectors) have a 360 degree shielding within the moulding. This provides effective protection for signal and data transmission.

Delivery times are another decisive factor. Our special production strategy allows us to quickly manufacture parts that are customised to a specific order. We have a dedicated department that is focussed on this strategy and which is located close to the Detmold central warehouse in order to keep delivery times to a minimum.

Note:
According to the PROFIBUS user organisation, PROFIBUS cables shorter than 1 m must not be avoided for transmission rates of 1.5 Mbps or higher.



Bus cables: shown here in the standard colours:
blue (Profibus-PA Ex i), black (CANopen/DeviceNet or Profibus-PA), magenta (Profibus-DP) and green (Industrial Ethernet) together with the sensor cables



Cables



M12 plug-in connector



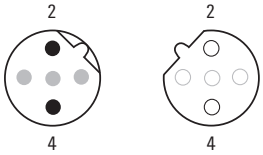
D-Sub connector

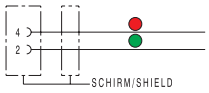


FBCon T-distributor

One end without connector
M12
B-coded







Ordering data

		2-pole
Male, straight		
PUR halogen-free	1.5 m	SAIL-M12G-PB-1.5D **1873300150**
PVC/PVC	1.5 m	SAIL-M12G-PB-1.5E **1058530150**
Male, angled		
PUR halogen-free	1.5 m	SAIL-M12W-PB-1.5D **1061970150**
PVC/PVC	1.5 m	SAIL-M12W-PB-1.5E **1062340150**
Female, straight		
PUR halogen-free	1.5 m	SAIL-M12BG-PB-1.5D **1873320150**
PVC/PVC	1.5 m	SAIL-M12BG-PB-1.5E **1058540150**
Female, angled		
PUR halogen-free	1.5 m	SAIL-M12BW-PB-1.5D **1062300150**
PVC/PVC	1.5 m	SAIL-M12BW-PB-1.5E **1062370150**
Note		Other versions on request

Standard cable lengths

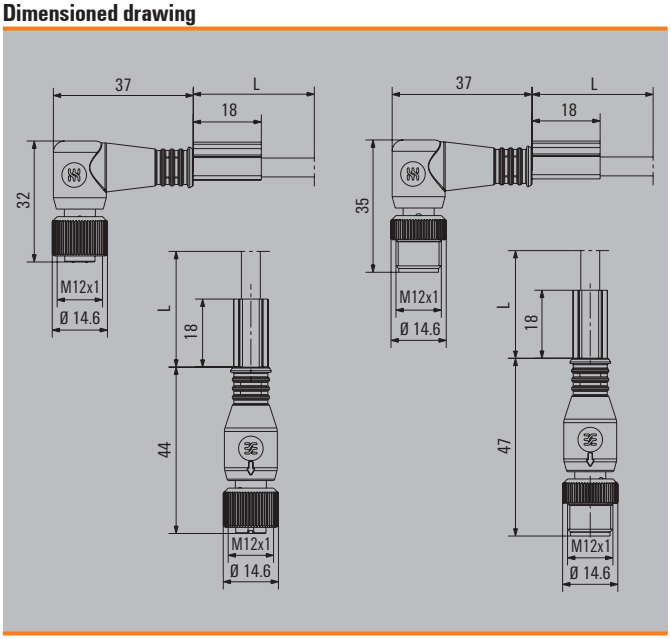
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Core cross-section	PUR: 24 AWG; PVC: 22 AWG
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

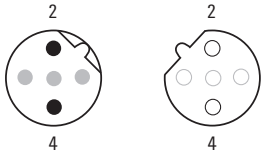
Chapter W includes additional technical specifications for the cable

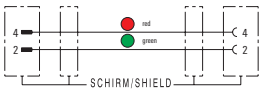
Dimensioned drawing



PROFIBUS-DP cables
Connecting cables
M12 to M12
B-coded







Ordering data

		2-pole
Male, straight - Female, straight		
PUR halogen-free	1.5 m	SAIL-M12GM12G-PB-1.5D **1873310150**
PVC/PVC	1.5 m	SAIL-M12GM12G-PB-1.5E **1058570150**
Male, straight - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12GM12W-PB-1.5D **1062310150**
PVC/PVC	1.5 m	SAIL-M12GM12W-PB-1.5E **1062380150**
Male, angled - Female, angled		
PUR halogen-free	1.5 m	SAIL-M12WM12W-PB-1.5D **1062330150**
PVC/PVC	1.5 m	SAIL-M12WM12W-PB-1.5E **1062400150**
Note		Other versions on request

Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.

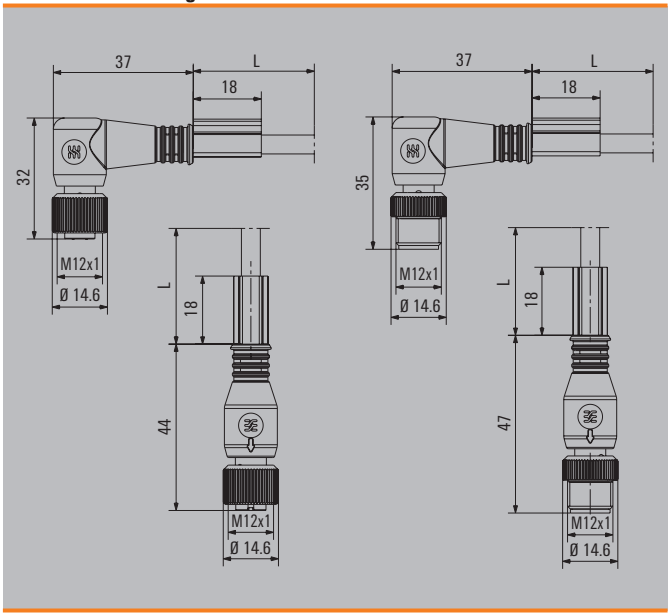
1.5 m	xxxxxx0150
3.0 m	xxxxxx0300
5.0 m	xxxxxx0500
10.0 m	xxxxxx1000

Technical data

Sheathing colour	violet
Protection degree	IP67
Core cross-section	PUR: 24 AWG; PVC: 22 AWG
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



M

PROFIBUS-DP cables

One end without connector





Female



Ordering data

		2-pole
Female, straight		
PVC/PVC	1.5 m	SAIL-M12BG-PBK38-1.5V **1431520150**
Female, angled		
PVC/PVC	1.5 m	SAIL-M12BW-PBK38-1.5V **1431510150**
Note		

Standard cable lengths

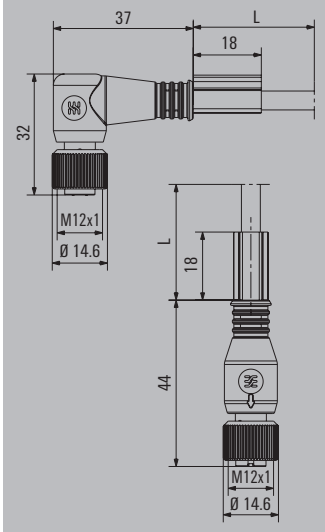
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.

1.5 m	xxxxxx0150
3.0 m	xxxxxx0300
5.0 m	xxxxxx0500
10.0 m	xxxxxx1000

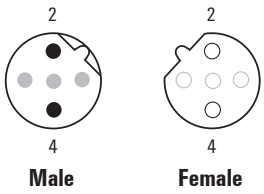
Technical data

Sheathing colour	violet
Protection degree	IP67
Core cross-section	PVC: 22 AWG
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Dimensioned drawing



Mounts behind wall PROFIBUS DP
B-coded, shielded



M12 built-in connector

Male, straight



M12 built-in connector

Female, straight



Technical data

Cable gland	PG9, Mounts behind wall	PG9, Mounts behind wall
Housing base material	Zinc diecast, nickel-plated	Zinc diecast, nickel-plated
Contact socket diameter	M12	M12
Core cross-section	AWG 24	AWG 24
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-20...+60 °C	-20...+60 °C
Protection degree	IP 68 (when screwed in)	IP 68 (when screwed in)
Contact surface	gold-plated	gold-plated
Sheath material	PUR halogen-free	PUR halogen-free
Tightening torque	1 Nm (to housing)	1 Nm (to housing)

Note

Ordering data

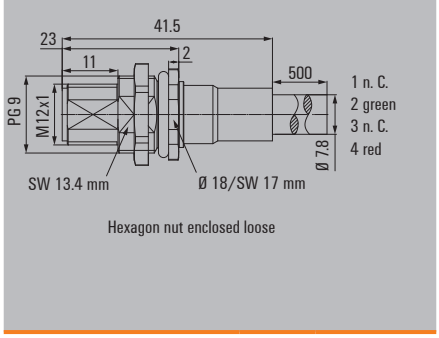
PUR halogen-free	0.5 m
PUR halogen-free	1m
PUR halogen-free	2 m
PUR halogen-free	5 m

Note

	2-pole
Type	**Order No.**
SAIE-M12S-PB-0.5U HW	**1279490050**
SAIE-M12S-PB-1.0U HW	**1279490100**
SAIE-M12S-PB-2.0U HW	**1279490200**
SAIE-M12S-PB-5.0U HW	**1279490500**
Other versions / Lengths on request	

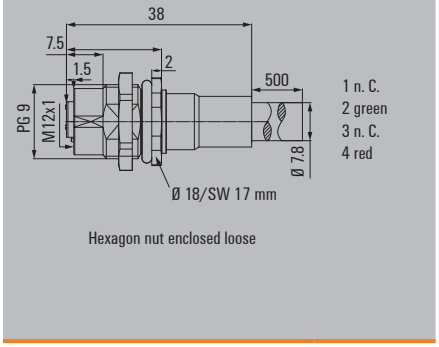
	2-pole
Type	**Order No.**
SAIE-M12B-PB-0.5U HW	**1279480050**
SAIE-M12B-PB-1.0U HW	**1279480100**
SAIE-M12B-PB-2.0U HW	**1279480200**
SAIE-M12B-PB-5.0U HW	**1279480500**
Other versions / Lengths on request	

Dimensioned drawing



Hexagon nut enclosed loose

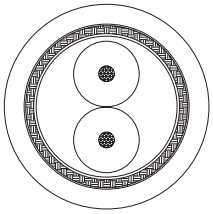
Dimensioned drawing

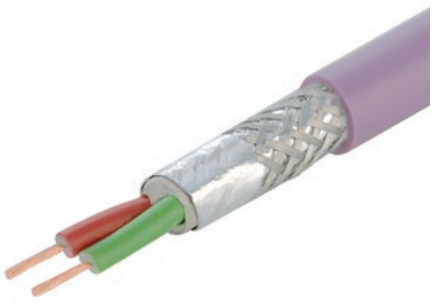


Hexagon nut enclosed loose

M

PROFIBUS-DP bulk lengths





Technical data

Assembly		
Wire	Conductor: 19-wire strands copper shiny, AWG 24, 0.64 mm Ø nominal Insulation: PE foam, 2.55 mm Ø nominal	
Pair	2 wires according to 3.2.1 (red, green) laid as a pair, 5.1 mm Ø nominal	
Interior sheathing	Coil-filling interior sheathing, 5.3 mm Ø nominal	
Shield	a) Overlapping aluminium film, 6.1 mm Ø nominal b) Braided tin-plated copper, coverage approx. 65%, 6.1 Ø nominal	
Outer cladding	TPE-U free from halogens, 8.0 +/- 0.4 mm	
Electrical characteristics at 20 °C		
Conductor resistance	< 84.0 Ω/km	
Insulation resistance	> 1 GΩ ● km	
Operational capacity	< 35 nF/km	
Characteristic impedance	9.6 Khz (RW) 38.4 Khz (RW) 3-20 Mhz	300 Ω 185 +/- 20 Ω 150 +/- 15 Ω
Attenuation	9.6 Khz 38.4 Khz 4 Mhz 16 Mhz	3 dB/km 5 dB/km 26 dB/km 55 dB/km
Test voltage (50 Hz, 1 min.)	Wire/wire Wire/shield	0.5 kV_{eff} 0.5 kV_{eff}
Mechanical and thermal characteristics		
Temperature range	Stationary Moving	-40 °C to +70 °C -20 °C to +60 °C
Min. permitted bending radius	Once Multiple	7.5 x d 15 x d
Max. tensile load resistance	Static Dynamic	50 N/mm² 20 N/mm²
Suitable for dragline cable carriers	Yes	
Halogen-free	Yes	

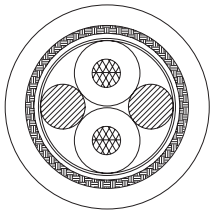
Note

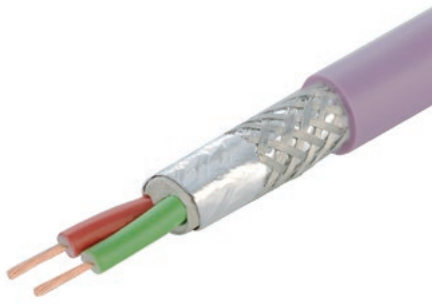
Ordering data

	Type	Order No.
Metre goods	SAIH-PB-2X0.24-PUR	1232620000

Note

PROFIBUS-DP bulk lengths





Technical data

Assembly		
Wire		Conductor: copper wire, without insulation, AWG 22, 0.64 mm Ø nominal
		Insulation: PE foam, 2.55 mm Ø nominal
Pair		2 wires according to 4.1 (red, green) to pair stranded, 5.1 mm Ø nominal
Interior sheathing		Plastic foil, 5.2 mm Ø nominal
Shield		a) AL foil, 5.4 mm Ø nominal
		b) Braiding tin-plated copper, coverage approx. 60 %, 6.0 mm Ø nominal
Outer cladding		PVC YM, 7.8 +/- 0.2 mm Ø nominal
Electrical characteristics at 20 °C		
Conductor resistance		< 55 Ω/km
Insulation resistance		> 1 GΩ ● km
Operational capacity		30 pF/m nominal
Characteristic impedance	9.6 Khz (RW)	270 Ω
	38.4 Khz (RW)	185 Ω
	3-20 Mhz	150 +/- 15 Ω
Attenuation	9.6 Khz	2.2 dB/km
	38.4 Khz	3.4 dB/km
	100 Khz	4.5 dB/km
	1 Mhz	11.5 dB/km
	3 Mhz	18.2 dB/km
	10 Mhz	33.2 dB/km
	20 Mhz	48.0 dB/km
Test voltage (50 Hz, 1 min.)	Wire/wire	1.5 kV_{eff}
	Wire/shield	1.5 kV_{eff}
Mechanical and thermal characteristics		
Temperature range	Stationary	-40 °C to +70 °C
	Moving	-20 °C to +70 °C
Min. permitted bending radius	Once	9 x d
	Multiple	18 x d
Max. tensile load resistance	Static	50 N/mm²
	Dynamic	20 N/mm²
Suitable for dragline cable carriers		No
Halogen-free		No

Note

Ordering data

Type	Order No.
SAIH-PB-2X0.34-PVC	**1933640000**

Metre goods

Note

M12 tension-clamp connection, stainless steel with shield connection
B-coded

SAIS / SAIB VA

Straight



Ordering data

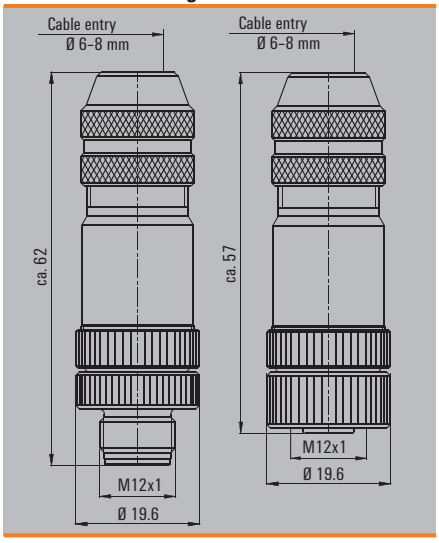
Male	
	B-coded, 5-pole, PG 9
Female	
	B-coded, 5-pole, PG 9
Note	

Type	Qty.	Order No.
SAIS 5/9-VA-B-COD	1	**1920720000**
SAIB 5/9-VA-B-COD	1	**1920730000**

Technical data

Type of connection	Tension-clamp connection
Housing main material	1.4404/316L
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD / D-COD)

Dimensioned drawing



M

M12 screw connection
with shield connection
B-coded

SAISM / SAIBM

Straight



SAISW / SAIBW

Angled



Ordering data

Male			
	5-pole. PG 9		
Female			
	5-pole. PG 9		
Note			

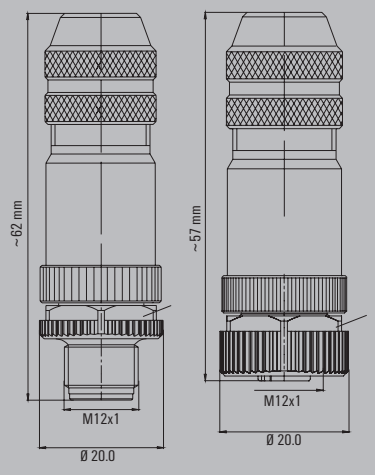
Type	Qty.	Order No.
SAISM 5/8S M12 5P B-COD	1	**1784790000**
SAIBM 5/8S M12 5P B-COD	1	**1784780000**

Type	Qty.	Order No.
SAISW-M-5/8 M12 B-COD	1	**1944570000**
SAIBW-M-5/8 M12 B-COD	1	**1944580000**

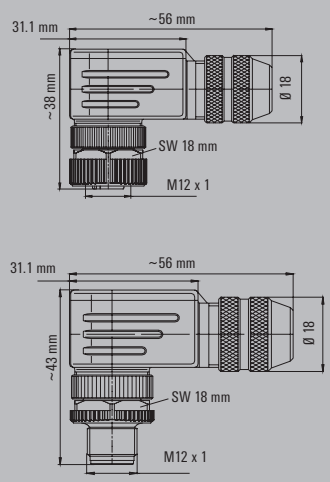
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	125 V	125 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



M

Insulation displacement connection (IDC) M12 with shield connection B-coded

SAIS / SAIB

Straight



Ordering data

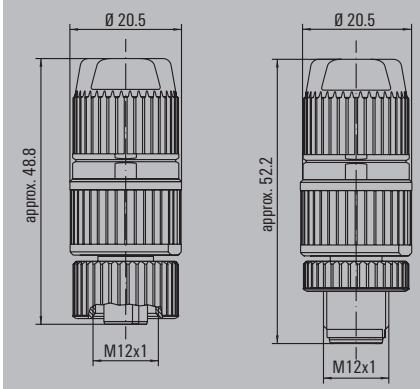
Male			
	3-pole. PG 9		
Female			
	3-pole. PG 9		
Note			

Type	Qty.	Order No.
SAIS-2-IDC-M12B-COD	1	**1864730000**
SAIB-2-IDC-M12B-COD	1	**1864740000**

Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
Connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	PB = PROFIBUS (B-COD) IE = Industrial Ethernet (D-COD)

Dimensioned drawing



PROFIBUS D-Sub
M12 cable connection
90° exit angle

PB-DP D-Sub M12 TERM

With bus termination switch



PB-DP D-Sub M12 TERM PS

With bus termination switch and programming interface



Ordering data

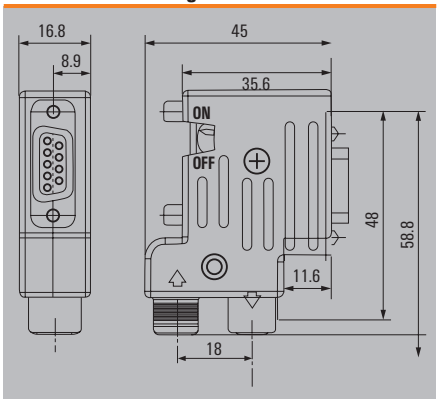
Type	Qty.	Order No.
PB-DP SUB-D M12 TERM	1	1140650000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D M12 TERM PS	1	1140640000
Other versions on request		

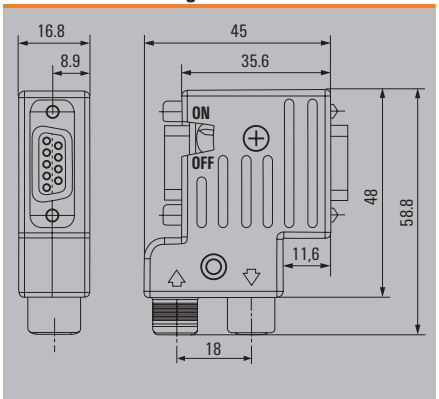
Technical data

Outgoing elbow	90°	90°
Data rate	12 MBit/s	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl	ZnAl
BUS, cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned	M12 B-coded male and female connector, pins 2 and 4 assigned
BUS interface	D-Sub 9-pole, Pin	D-Sub 9-pole, Pin
Protection degree	IP30	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200	≥ 200
Temperature range of housing	-20...+70 ° C	-20...+70 ° C
Interlock	UNC4-40	UNC4-40
Note		

Dimensioned drawing



Dimensioned drawing



M

PROFIBUS D-Sub
Tension clamp connection
35° exit angle

PB-DP D-Sub ZF35TERM
With bus termination switch



PB-DP D-Sub ZF35TERM PS
With bus termination switch and programming interface



Ordering data

Type	Qty.	Order No.
PB-DP SUB-D ZF35TERM	1	1173220000
Other versions on request		

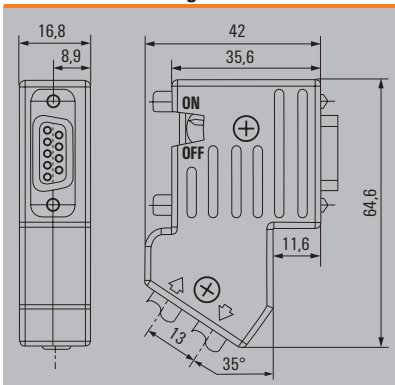
Type	Qty.	Order No.
PB-DP SUB-D ZF35TERM PS	1	1173240000
Other versions on request		

Technical data

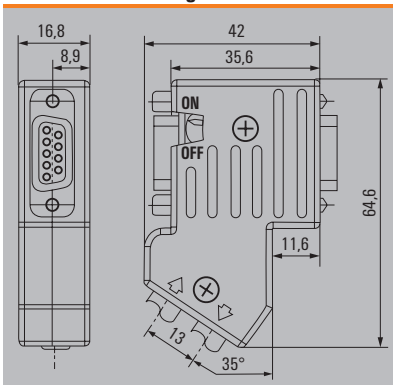
Outgoing elbow	35°
Data rate	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Tension clamp connection
BUS interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

35°	
12 MBit/s	
Max. 75% at +25°C, non-condensing	
ZnAl	
Tension clamp connection	
D-Sub 9-pole, Pin	
IP30	
In accordance with the PROFIBUS specification	
≥ 200	
-20...+70 ° C	
UNC4-40	

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub
Tension clamp connection
90° exit angle

PB-DP D-Sub ZF



PB-DP D-Sub ZF TERM

With bus termination switch



Ordering data

Type	Qty.	Order No.
PB-DP SUB-D ZF	1	1161890000
Other versions on request		

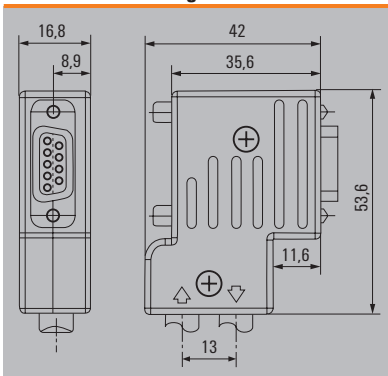
Type	Qty.	Order No.
PB-DP SUB-D ZF TERM	1	1161870000
Other versions on request		

Technical data

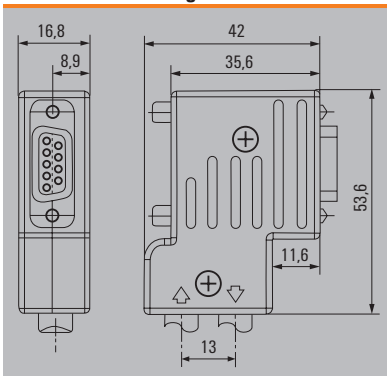
Outgoing elbow	90°
Data rate	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Tension clamp connection
BUS interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

90°	
12 MBit/s	
Max. 75% at +25°C, non-condensing	
ZnAl	
Tension clamp connection	
D-Sub 9-pole, Pin	
IP30	
In accordance with the PROFIBUS specification	
≥ 200	
-20...+70 ° C	
UNC4-40	

Dimensioned drawing



Dimensioned drawing



M

PROFIBUS D-Sub
Tension clamp connection
90° exit angle

PB-DP D-Sub ZF TERM PS

With bus termination switch and programming interface



Ordering data

Type	Qty.	Order No.
PB-DP SUB-D ZF TERM PS	1	**1161880000**

Note

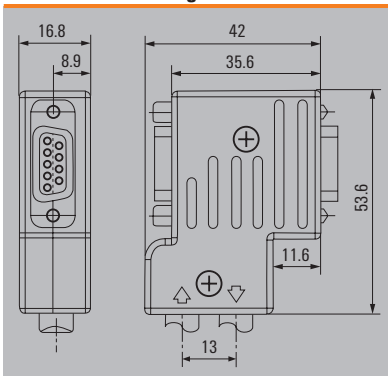
Other versions on request

Technical data

Outgoing elbow	90°
Data rate	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Tension clamp connection
BUS interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

Dimensioned drawing



PROFIBUS D-Sub
M12 cable connection
180° exit angle

PB-DP D-Sub M12 180

With bus termination switch



PB-DP D-Sub M12 180 OS



Ordering data

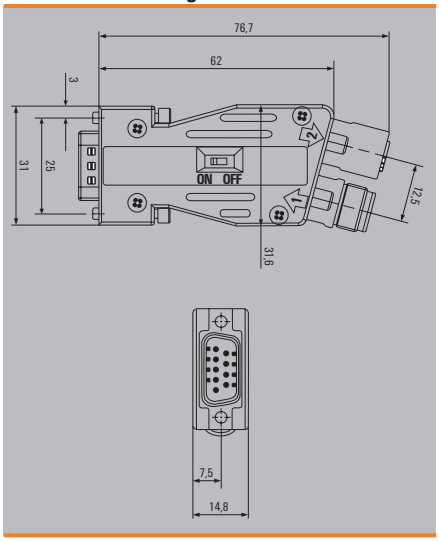
Type	Qty.	Order No.
PB-DP SUB-D M12 180	1	1264180000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D M12 180 OS	1	1274250000
Other versions on request		

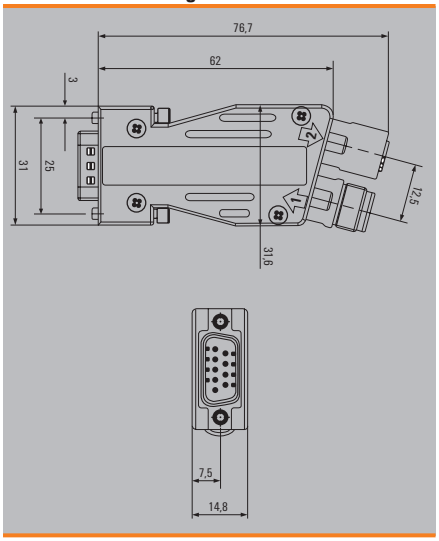
Technical data

Outgoing elbow	180°	180°
Data rate	12 MBit/s	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl	ZnAl
BUS, cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned	M12 B-coded male and female connector, pins 2 and 4 assigned
BUS interface	D-Sub 9-pole, Pin	D-Sub 9-pole, Pin
Protection degree	IP30	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200	≥ 200
Temperature range of housing	-20...+70 ° C	-20...+70 ° C
Interlock	UNC4-40	UNC4-40

Dimensioned drawing



Dimensioned drawing



M

PROFIBUS D-Sub
Screw connection
90° exit angle
Plastic

PB-DP D-Sub



PB-DP D-Sub TERM

With bus termination switch



Ordering data

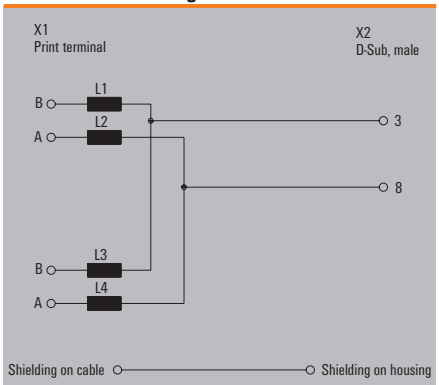
Type	Qty.	Order No.
PB-DP SUB-D	1	8395500000
Other versions on request		

Type	Qty.	Order No.
PB-DP SUB-D TERM	1	8460860000
Other versions on request		

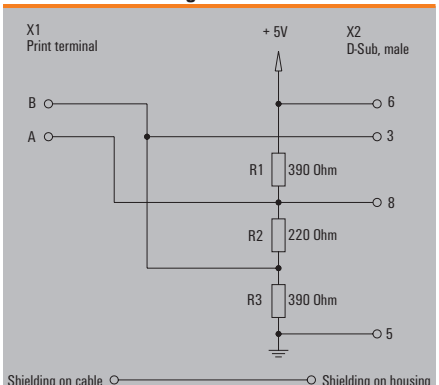
Technical data

Outgoing elbow	90°	90°
Data rate	12 MBit/s	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1	PC UL 94 V-1
BUS, cable interface	Screw connection	Screw connection
BUS interface	D-Sub 9-pole, Pin	D-Sub 9-pole, Pin
Protection degree	IP40	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification	In accordance with the PROFIBUS specification
Plugging cycles		
Temperature range of housing	-25...+80 °C	-25...+80 °C
Interlock	UNC4-40	UNC4-40
Note		

Dimensioned drawing



Dimensioned drawing



M

PROFIBUS D-Sub
90° exit angle
Plastic
With bus termination switch
With programming interface

PB D-Sub IDC TERM PS

With IDC connection



PB D-Sub ZF TERM PS

With tension-clamp connection



Ordering data

Type	Qty.	Order No.
PB SUB-D IDC TERM PS	1	1919680000

Note: Other versions on request

Type	Qty.	Order No.
PB SUB-D ZF TERM PS	1	1934200000

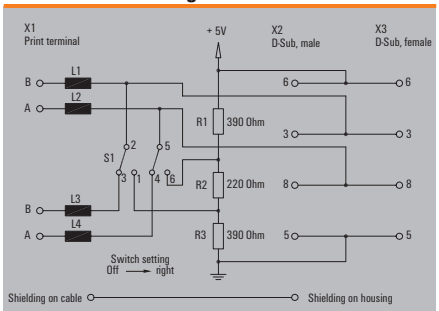
Note: Other versions on request

Technical data

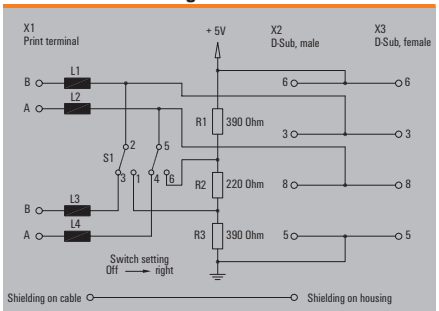
Outgoing elbow	90°	90°
Data rate	12 MBit/s	12 MBit/s
Humidity	Max. 75% at +25°C, non-condensing	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1	PC UL 94 V-1
BUS, cable interface	Insulation displacement connection	Tension clamp connection
BUS interface	D-Sub 9-pole, Pin	D-Sub 9-pole, Pin
Protection degree	IP40	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification	In accordance with the PROFIBUS specification
Plugging cycles		
Temperature range of housing	-25...+80 °C	-25...+80 °C
Interlock	UNC4-40	UNC4-40

Note

Dimensioned drawing



Dimensioned drawing



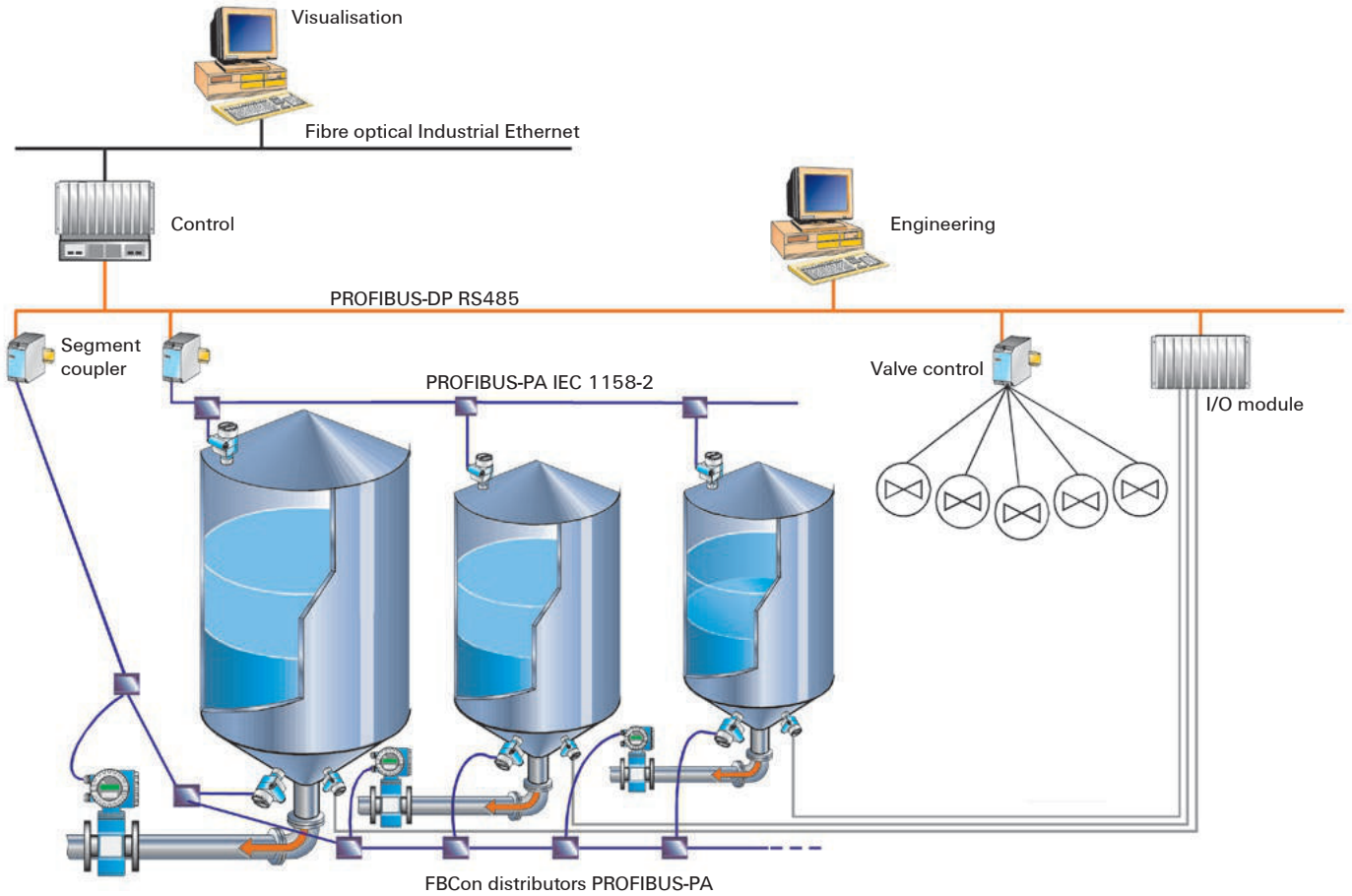
System description, fieldbus distributor

FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices devices or sensors.
The connection is made via a spur. The spur is connected by an M12 plug in connector or directly via an EMC cable gland. The communication and device powering is handled by a common 2-core wire.

The distributors offer the following features irrespective of the version:

- Tension clamp connection technology
- Surge protection for the main line
- Current limiter for each stub line
- EMC cable gland
- M12 plug in connectors
- External earth stud
- Interruption-free bus operation
- Industrial specification
- Bus termination integrated (non EX)
- T ATEX version
- Pressure equalising element
- IP 66 Ingress protection class
- Stainless steel versions
- PROFIBUS-PA compatible

Typical PROFIBUS system layout

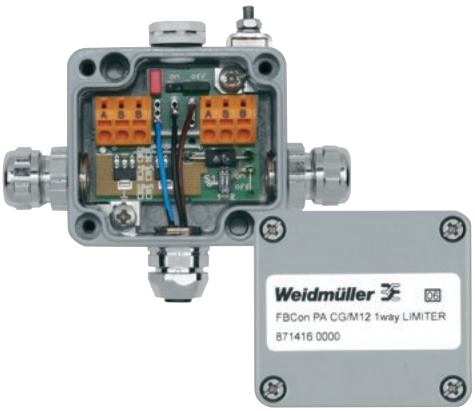


Product coding

The FBCon family of distributors includes various forms. The product name indicates the respective features as follows:

FBCon	Field Bus Connection
PA	Profibus PA / Foundation Fieldbus
DP	Profibus DP / Modbus RS485
SS	Stainless Steel
CG	Stainless steel cable gland on stainless steel housing. On standard aluminium housings, the cable gland is nickel-plated brass.
PCG	Plastic Cable Gland
CG/M12	M12 plug-in connector for the stub cables and cable gland for the trunk cable
1way	Number of outgoing stub lines
Limiter	Current limiter: protects the PROFIBUS-PA network in the event of an overload in the stub line
EX	Approved for potentially explosive areas
ATEX	For explosive atmospheres

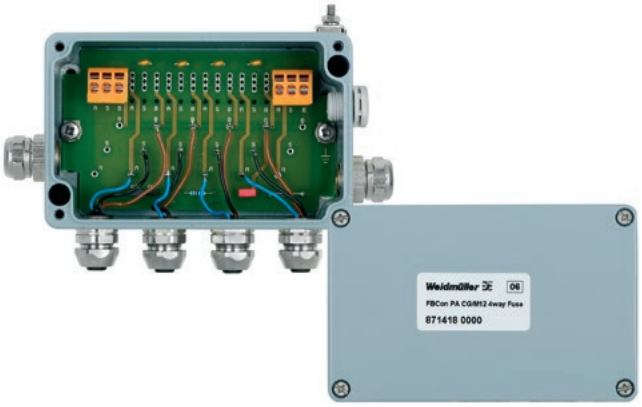
Note: FBCon products with aluminium housings and/or M12 connections are not recommended for use in extremely saline environments.



FBCon PA CG/M12 1way Limiter

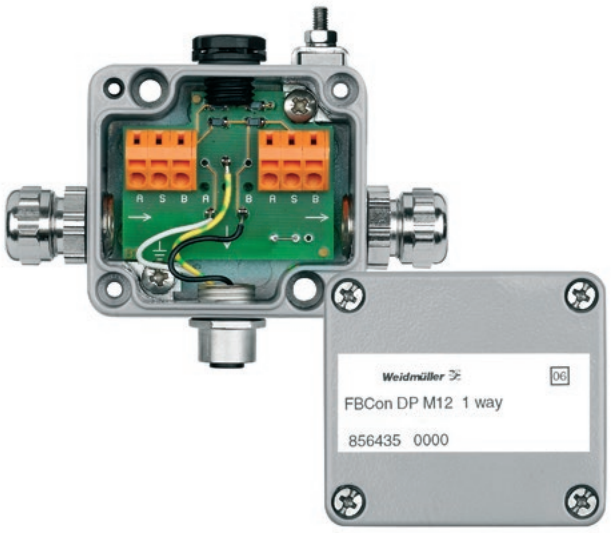


FBCon SS PCG 1way



FBCon PA CG 1way Ex

Distributors for Profibus DP / Modbus RS485



Distributors for Profibus DP / Modbus RS485

For Profibus DP and Modbus RS485, the FBCon standard T distributors and terminating resistors each connect one field device or one remote I/O to the bus cable. The length of the spur cable depends on the transmission rate and should be as short as possible. An individual spur line must not exceed a length of 0.3 m. The total of all spur lengths for transmission rates up to 1.5 MBaud may not exceed max. 6.6 m. The trunk cable passes through an EMC cable gland into an aluminium or stainless steel enclosure where it is connected to a tension clamp terminal. The spur line to the device is connected using a B-coded M12 socket or an EMC cable gland. Terminating resistors must be wired onto the start and end of the PROFIBUS-DP network. The Terminator modules can take care of this task. The electrically isolated 24 V DC power supply for the bus terminator is routed into the cable gland on the right side. The housing features a pressure-compensation mechanism that counters the effects of climatic fluctuations. The guidelines issued by the PROFIBUS user organisation must be observed.

PROFIBUS-DP

Technical data

Operating temperature	–25 to 70 (Term 24V) / -40 °C to 85 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (AL – SI 12)
Finish	Painted RAL 7001
PROFIBUS-DP connection	Tension clamp terminals 0.5 – 1.5 mm²
Cable entry	Cable gland M16
Cable gland clamping range	5.5 – 9.5 mm
Contact surface	M12 plug/socket CuZnAu
Transmission rate	Max. 1.5 MBaud
Power supply bus connection	Bus terminator 24 VDC +/–10 % or 5 V
Trunk cable via cable gland	

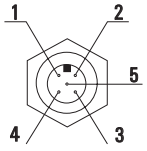
Installation advice

Torques	
M16 cable gland at enclosure	6.0 Nm
Union nut, M16 cable gland	4.0 Nm
Enclosure cover	1.8 – 2.0 N
External earthing cable	1.8 – 2.0 Nm
Adaptor/stud cable	0.5 Nm

Pin assignment

Pin no.	Connection	Wire colour
Pin 1	unassigned	
Pin 2	RxDx/TxD-N / A-wire	green
Pin 3	unassigned	
Pin 4	RxDx/TxD-N / B-wire	red
Pin 5	shield	
Cable gland	shield	

Socket B-coded



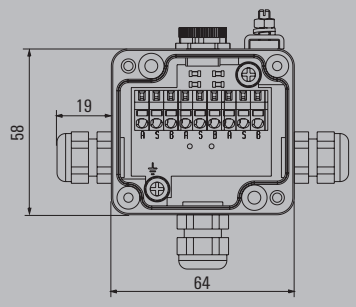
1-channel distributor



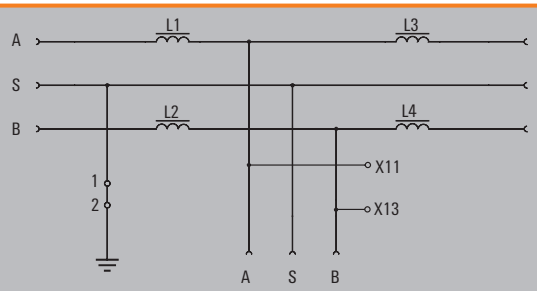
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP CG 1way	branch line CG	1	**8564340000**
Stainless steel housing			
FBCon SS DP PCG 1way	all connections PCG	1	**8714260000**

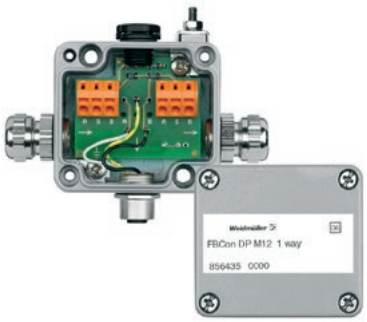
Dimensioned drawing



Wiring diagram



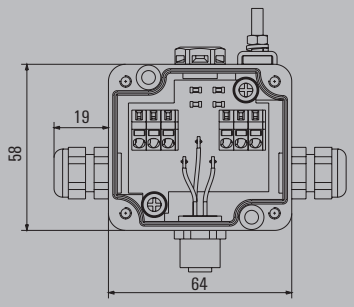
1-channel distributor



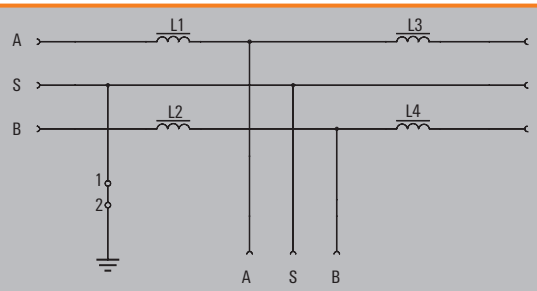
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP M12 1way	branch line M12	1	**8564350000**
Stainless steel housing			
FBCon SS DP M12 1way	branch line M12	1	**8714270000**

Dimensioned drawing



Wiring diagram



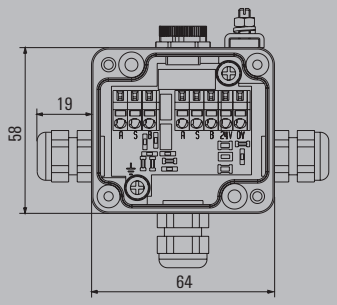
Terminator



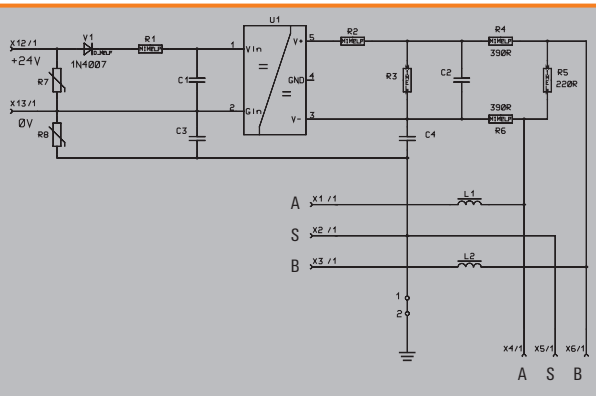
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP CG Term 24V	branch line CG	1	**8564290000**
Stainless steel housing			
FBCon SS DP PCG Term 24V	all connections PCG	1	**8714240000**

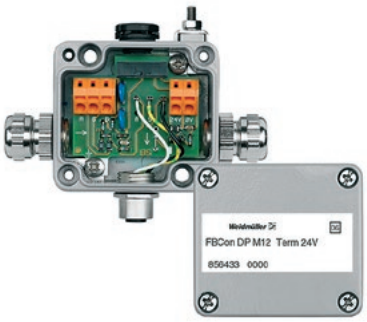
Dimensioned drawing



Wiring diagram



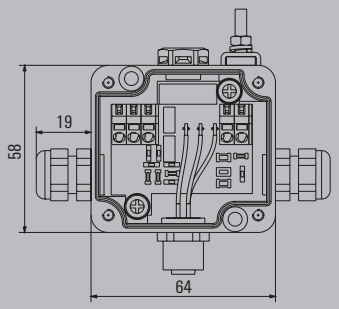
Terminator



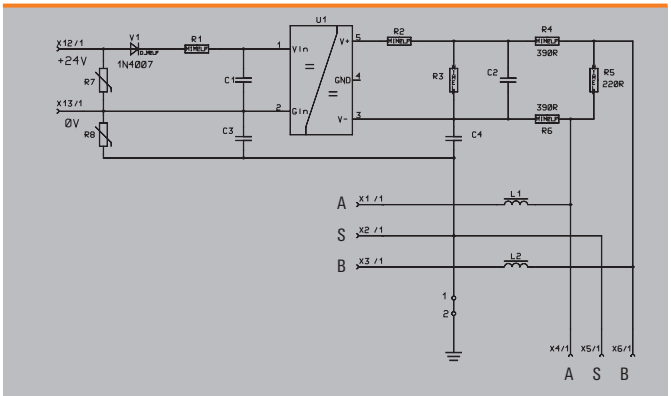
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon DP M12 Term 24V	branch line M12	1	**8564330000**
FBCon DP M12 Term 5V	branch line M12	1	**8564320000**
Stainless steel housing			
FBCon SS DP M12 Term 24V	branch line M12	1	**8714250000**

Dimensioned drawing



Wiring diagram



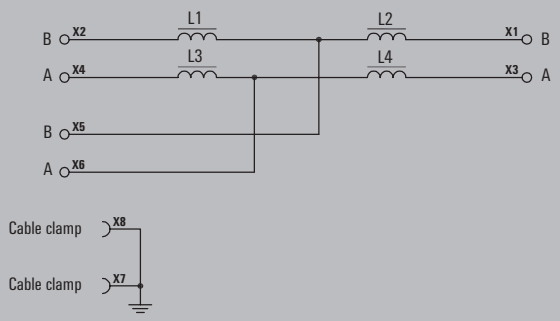
PROFIBUS-DP IP 20 T-distributor



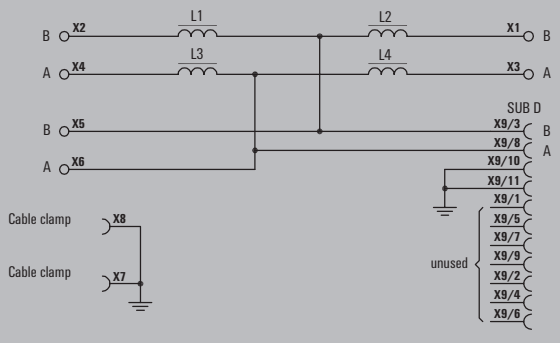
The distributor for PROFIBUS-DP enables the user to connect it conveniently in the electrical cabinet. It can be mounted on TS 32/35 rails and used to connect standardised PROFIBUS-DP lines. Spur cables can also be connected. Please note that spur cables should be kept as short as possible. Part No. 8788580000 has a 9-pin D-Sub socket for connecting analysis/programming devices.

- T-piece functions
- Good shield contact
- Ample space for connecting the bus cable
- TS 32/35 terminal rail mounting
- Standardised D-Sub connection for PROFIBUS-DP

RS PB-DP T



RS PB-DP T SUB-D



Technical data

Data transmission rate		max. 1.5 Mbps (with max. 6.6 m spur line) max. 12 Mbps (no spur lines)
Operating temperature	°C	0 ... 55
Storage temperature	°C	–25 ... +70
Ingress protection class		IP 20
Dimensions (LxWxH)	mm	70 x 45 x 42
Plug-in connector		D-sub 9-pin
Cable diameter	mm	4.5 ... 8
Single conductor cross-section	mm^2	0.5 ... 2.5
Type of connection		screw

Note

Ordering data

Type	Qty.	Order No.
RS PB-DP T	1	8800040000
RS PB-DP T SUB-D	1	8788580000

M

The PROFIBUS-PA is an open fieldbus standard (EN 50170, IEC 61158-2, DIN 19245). It was specifically designed for the requirements of process engineering, such as remote powering and intrinsic safety. The PROFIBUS-PA enables operation of several PA sensors and actuators on one bus line.
The devices are powered using twin cable technology, and the transmission of process data is digital.

Integration in the PROFIBUS-DP network is done by means of a segment coupler.

Specific advantages of PROFIBUS-PA:
- Low wiring costs
- Minimal planning costs for the process control system
- Remote interrogation or programming of the field device
- Further development and support by the PROFIBUS User Organisation

Whether for servicing or system modification, the PROFIBUS-PA FB connectors from Weidmüller enable connection or replacement of field devices without interrupting the bus system.

An extensive range of accessories, such as pre-assembled cables are also available.





PROFIBUS-PA cables



PROFIBUS-PA connectors

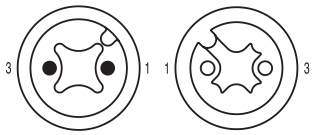


Profibus PA distributors

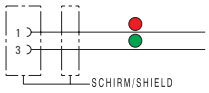
One end without connector
M12
A-coded

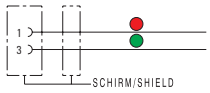






Male Female





Ordering data

		blue	black	
Male, straight				
PVC	1.0 m	FBCEX PA M12 M 1M **1785150100**	FBC PA M12 M 1M **1785120100**	
Male, angled				
PVC	1.0 m	FBCEX PA M12 MA 1M **1076580100**	FBC PA M12 MA 1M **1076540100**	
Female, straight				
PVC	1.0 m	FBCEX PA M12 FM 1M **1785140100**	FBC PA M12 FM 1M **1785110100**	
Female, angled				
PVC	1.0 m	FBCEX PA M12 FMA 1M **1076520100**	FBC PA M12 FMA 1M **1076530100**	
Note				

Standard cable lengths

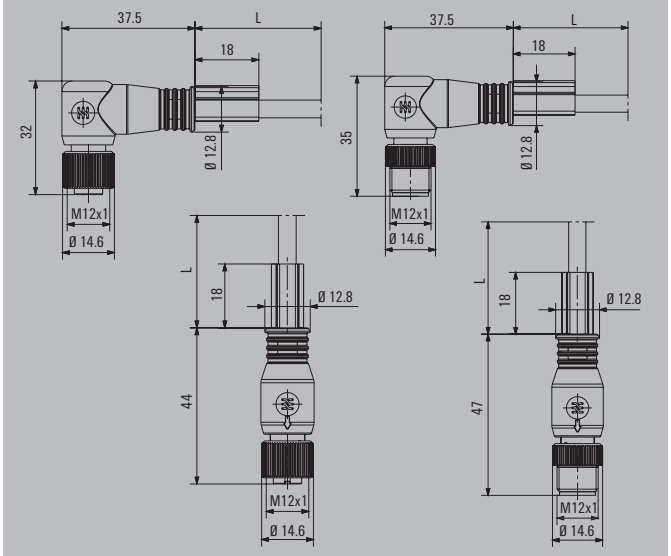
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cladding colour	black, blue
Protection degree	IP67
Core cross-section	1 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Chapter W includes additional technical specifications for the cable

Dimensioned drawing

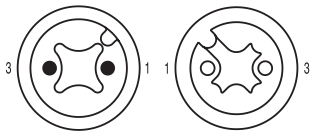


PROFIBUS-PA cables

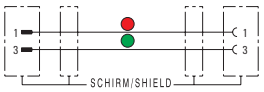
Connecting line

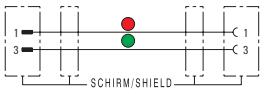






Male Female





Ordering data

		blue	black	
Male, straight - Female, straight				
PVC	1.0 m	FBCEX PA M12 M-FM 1M **1785130100**	FBC PA M12 M-FM 1M **1785100100**	
Male, straight - Female, angled				
PVC	1.0 m	FBCEX PA M12 M-FMA 1M **1075390100**	FBC PA M12 M-FMA 1M **1075620100**	
Male, angled - Female, angled				
PVC	1.0 m	FBCEX PA M12 MA-FMA 1M **1075410100**	FBC PA M12 MA-FMA 1M **1076550100**	
Male, angled - female, straight				
PVC	1.0 m	FBCEX PA M12 MA-FM 1M **1075450100**	FBC PA M12 MA-FM 1M **1075460100**	
Note				

Standard cable lengths

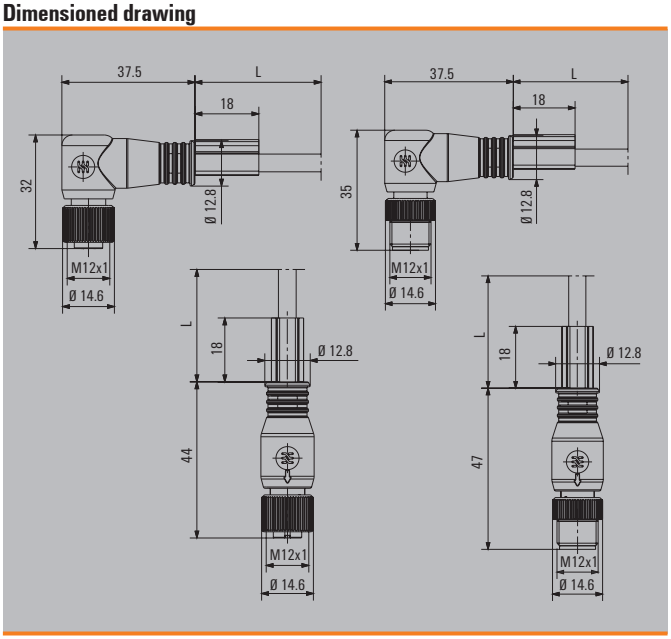
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cladding colour	black, blue
Protection degree	IP67
Core cross-section	1 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

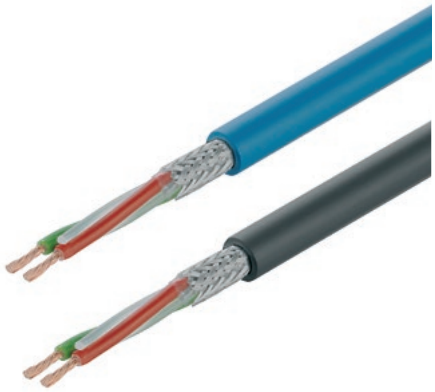
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



M

PROFIBUS-PA bulk lengths



Technical data

PROFIBUS-PA bulk lengths		
Application		• Fieldbus cable for PROFIBUS-PA field networks in accordance with IEC 1158-2 • The cable is suitable for installation in both dry and humid spaces. When used with the black, UV-resistant cladding, it can also be installed outdoors.
General characteristics		None of the materials used for the cables during production are detrimental to paint adhesion **(they are LBS-free).** **LBS** = Materials detrimental to paint adhesion
Assembly		
Conductor		Copper wire, without insulation, 1.0 mm², finely stranded
Insulating sleeve		Foam skin (02YS), wire Ø approx. 2.55 mm Wire colours: red and green
Stranding		2 wires with 2 drain wires approx. 1.0 mm Ø stranded
Wrapping		1 layer insulation foil
Shield		Braiding made from tin-plated copper wire, Coverage 85 % ± 5
Outer cladding		PVC, blue RAL 5015 or black Outer diameter: 8.0 mm ± 0.4
Electrical characteristics at 20 °C		
Wire resistance (loop)		max. 44 Ω/km
Insulation resistance		min. 5 GΩ x km
Working capacity at 800 Hz		nom. 52 nF/km
Inductance at 800 Hz		approx. 0.4 mH/km
Characteristic impedance	at 31.25 kHz	100 Ω ± 20 %
	at ≥ 1 MHz	nom. 80 Ω
Wave attenuation	at 39 kHz	max. 0.3 dB/100 m
	at 100 kHz	nom. 0.35 dB/100 m
	at 1 MHz	nom. 1.2 dB/100 m
Signal dispersion speed		nom. 79 %
Coupling resistance at < 30 MHz		max. 250 mOhm/m
Operating voltage (not for three-phase use)		Peak value 100 V
Test voltage	Wire/wire	$U_{eff.}$ 1500 V
	Wire/shield	$U_{eff.}$ 1500 V
Mechanical and thermal characteristics		
Min. bending radius stationary installed / during installation		65 mm
Temperature range during installation		-5 °C to +60 °C
Temperature range stationary installed		-30 °C to +80 °C
Flammability		Flame retardant in accordance with VDE 0482, part 265-2-1 / IEC 60 332-1

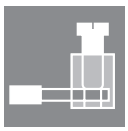
Note

Ordering data

Type	Order No.
SAIH-PB-PA-2X1.0-PVC-BL	1232630000
SAIH-PB-PA-2X1.0-PVC-SW	1232640000

Note

M12 screw connection with shield connection A-coded



FBCon / SAIS

Straight



SAISW / SAIBW

Angled



Ordering data

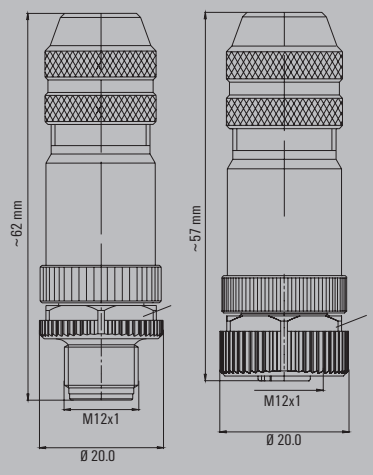
Male			
4-pole. PG 9	FBCON M12 4P M EMC	1	9455640000
5-pole. PG 9	SAIS-M-5/8S M12 5P A-COD	1	1784740000
Female			
4-pole. PG 9	FBCON M12 4P FM EMC	1	8426220000
5-pole. PG 7	SAIBM-5/6S M12 5P A-COD	1	1191020000
5-pole. PG 9	SAIB-M-5/8S M12 5P A-COD	1	1784750000
Note	Other versions on request		

Type	Qty.	Order No.
SAISW-M-4/8 M12	1	1803930000
SAISW-M-5/8 M12	1	1803940000
SAIBW-M-4/8 M12	1	1803910000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

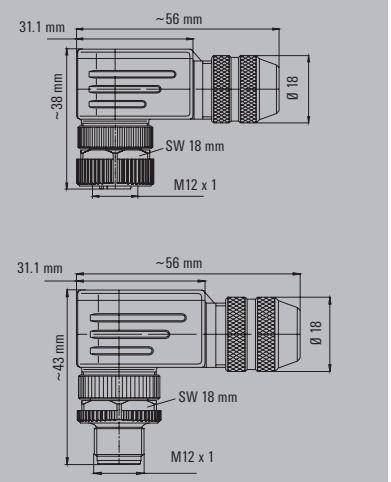
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



M

M12 tension-clamp connection, stainless steel with shield connection
A-coded



SAIS / SAIB VA

Straight



Ordering data

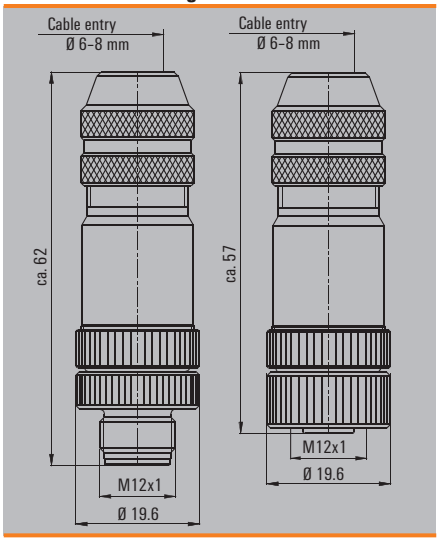
Male			
	A-coded, 5-pole, PG 9		
Female			
	A-coded, 5-pole, PG 9		
Note			

Type	Qty.	Order No.
SAIS 5/9-VA	1	**1920700000**
SAIB 5/9-VA	1	**1920710000**

Technical data

Type of connection	Tension-clamp connection
Housing main material	1.4404/316L
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD / D-COD)

Dimensioned drawing



Positioning plug connector



Positioning plug connector



Technical data

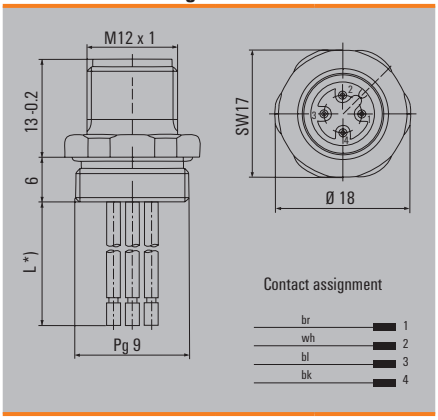
		Positioning plug connector for field device connection
No. of poles	4	4/5
Version	pin	pin
Temperature range	-40 °C ... 85 °C	-40 °C ... 85 °C
Housing material	stainless steel (VA)	Cu Zn nickel surface
Connection thread	PG 9	PG 13.5 / M 20
Plug thread	M12	M12
Strand cross-section	0.34 mm²	0.34 mm²
Housing class of protection to DIN 40050 IEC 529	IP 67	IP 67
Strand length (fitted with wire-end ferrules)	200 mm	150/300 mm
Nominal current per contact	4 A	4 A
Rated voltage	250 V	125 V 5-pole/250 V 4-pole
Contact surface	gold-plated	CuZnAu
Type of connection	screw	screw
Flammability class to UL-94		V-2
Nominal voltage to VDE standard 0110/ISO Group C		125 V ~ 150 V =
Resistance to creepage		KC 600
Contact resistance to IEC 512 Part 2		≤ 8 mΩ
Insulation resistance to IEC 512 Part 2		≥ 10^{12} Ω
Note		

Ordering data

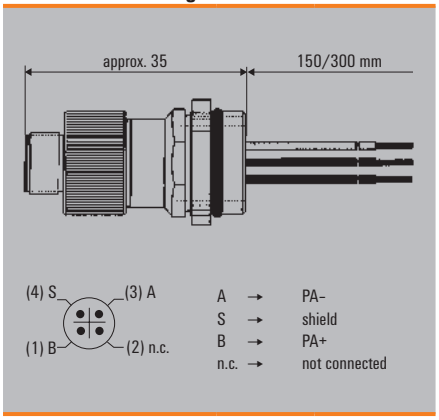
	Type	**Qty.**	**Order No.**
Positioning plug connector PG9 200 mm	SAIE-M12S-4-0.2U-AEH-VA	1	**1861220001**
Adapter PG9 / M20	SAIE-EW-M20/PG9-SW24-VA	1	**1950270000**
Positioning plug connector PG 13.5 150 mm			
Positioning plug connector PG 13.5 300 mm			
Positioning plug connector M 20 150 mm			
Positioning plug connector M 20 300 mm			
Positioning plug connector M 20 300 mm B-coded			
Note			

Type	**Qty.**	**Order No.**
POS-4P M12 PG13.5 150mm	1	**9455650000**
POS-4P M12 PG13.5 300 mm	1	**8425910000**
POS-4P M12 M20 150mm	1	**8425930000**
POS-4P M12 M20 300mm	1	**8425940000**
POS-5P M12/M20 300MM	1	**1795500000**

Dimensioned drawing



Dimensioned drawing



Fitting information

	Torque settings
Set screw	1.8 - 2.0 Nm
Knurled ring	hand-tight
Lock-nut	6.25 Nm

If the device is exposed to vibration, we recommend using a stub cable to isolate the device from the vibration.

FBCon distributors for the industrial market

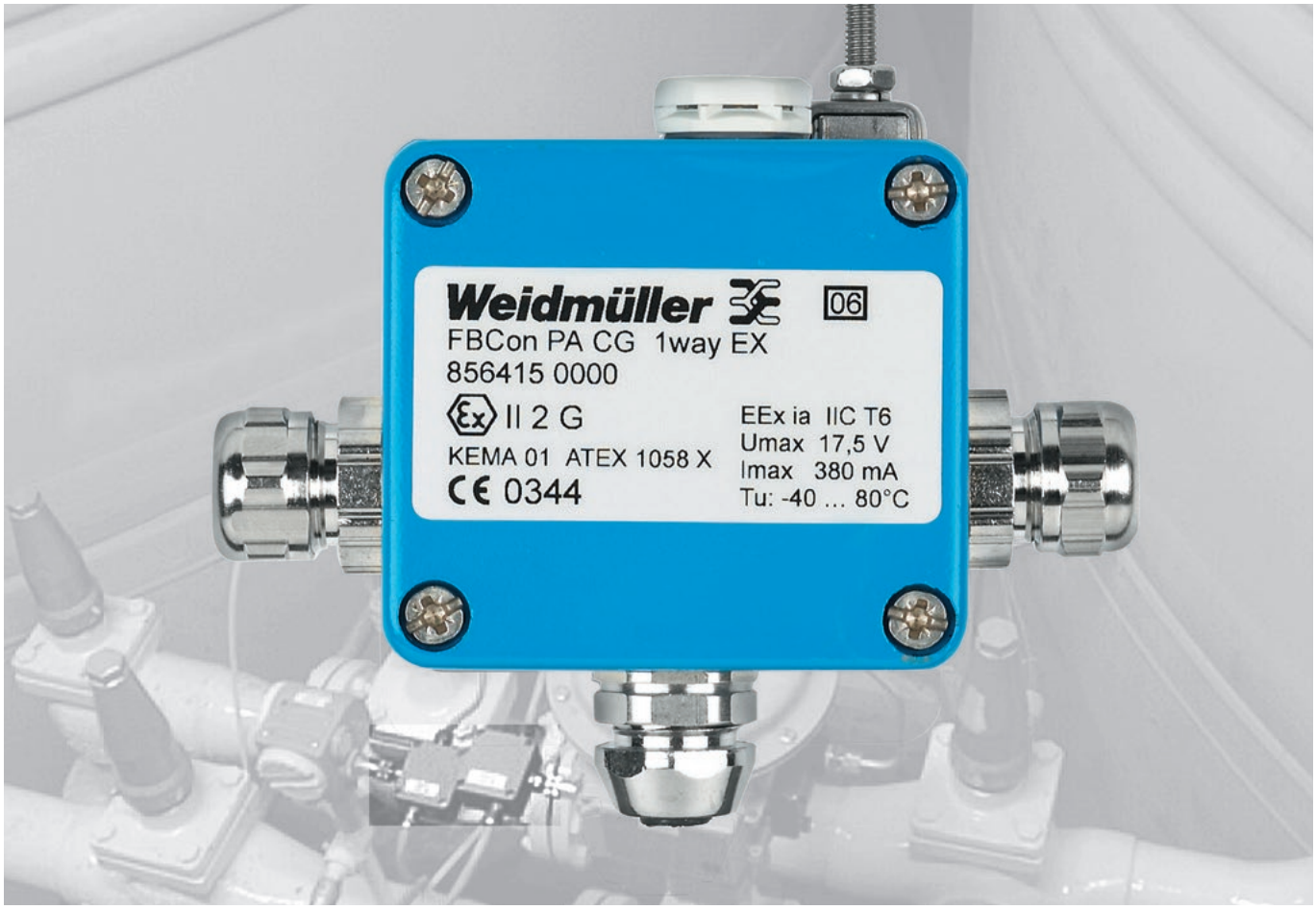
PROFIBUS-PA T-connector
- **for industrial applications**
- **standard**

The **PROFIBUS-PA** installation products are increasingly used in the:
- food and beverage industry
- process industries and
- chemical industry

The product range offers a wide choice of customer solutions for use in harsh conditions. This includes standard and EX versions of single and multi-way design with M12 plug-in connection or cable glands. Weidmüller offers a solution for almost every application. If you cannot find your solution here, please contact the branch / sales office responsible for you.

PROFIBUS-PA T-connector
standard
- 1, 2, 4, 8-way with EMC cable gland
  Industrial + EX / ATEX
- Optional surge protectio

The **PROFIBUS-PA T-connector** is intended for direct coupling of measuring devices, sensors, actuators, etc.
- IP 66 Ingress protection class
- Modular design
- Uninterruptible bus operation for service situations
- Simple handling
- Low installation costs
- External earth stud
- Pressure equalising element
- EMC cable gland



FBCon Fieldbus distributor

PROFIBUS-PA Fieldbus distributor: robust and well-tested

FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors. The connection is made via a spur. The spur is connected by an M12 plug-in connector or directly via an EMC cable gland.
The communication and device powering is handled by a common 2-core wire.
The PROFIBUS-PA distributors normally feature a switchable terminating resistor. For the Ex zone, the terminating resistor is made with a separate box. Current limiting variants help to ensure that the facility can operate smoothly.

Weidmüller offers a comprehensive line of accessories including pre-assembled PROFIBUS-PA cables in the standard lengths, and plug in connectors for a wide variety of applications.

- Fieldbus distributor for PROFIBUS-PA and PROFIBUS-DP
- Standard distributor for use in the safe zone
- Aluminium housing for connecting from 1 to 8 field devices
- Stainless steel distributor for applications in the food processing industry, for connecting from 1 to 8 field devices
- Intrinsically safe (ia) Ex version in aluminium housing for connecting from 1 to 8 field devices
- EMC cable gland for a secure contact with the shielding

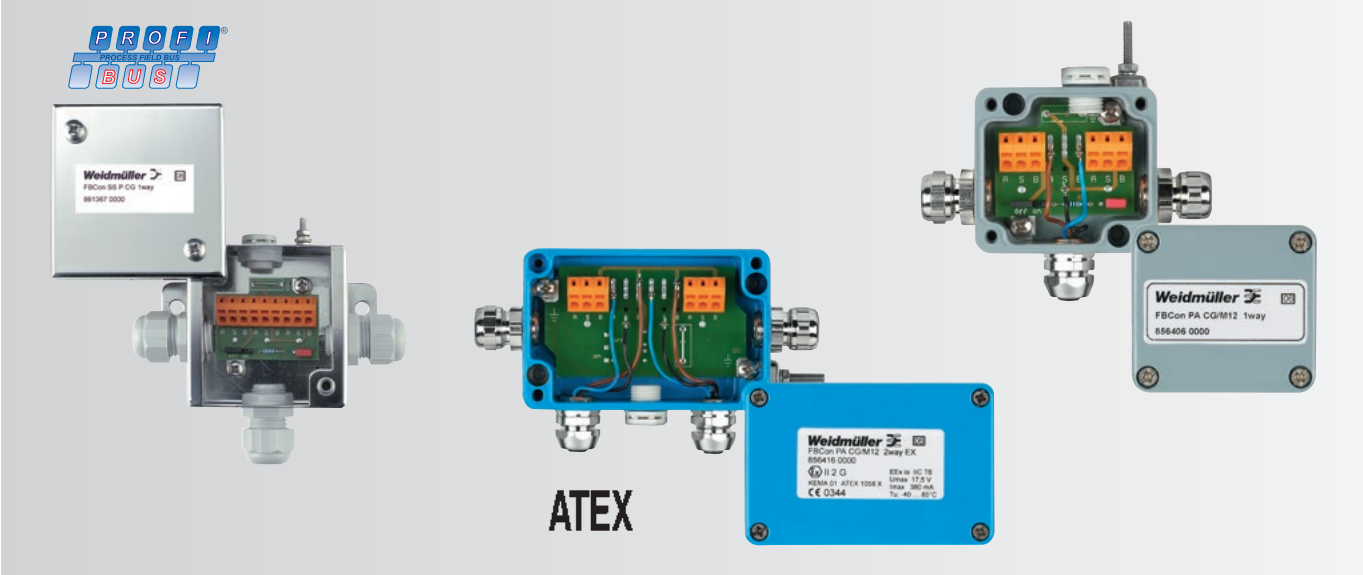
Technical data for PROFIBUS-PA standard distributors

Temperature range	
Operating temperature	from –40 °C to 85 °C
Ingress protection class	IP 66
Housing material	High-quality aluminium alloy (AL-Si 12)
Surface	Stove-enamelled RAL 7001
PROFIBUS-PA connection	Tension clamp connection 0.5 - 1.5 mm²
Cable entry	Cable gland M16
Clamping range	5.5 - 9.5 mm
Measuring device connector M12 x 14-pin	Contacts MS, surface CUZnAu
Note	

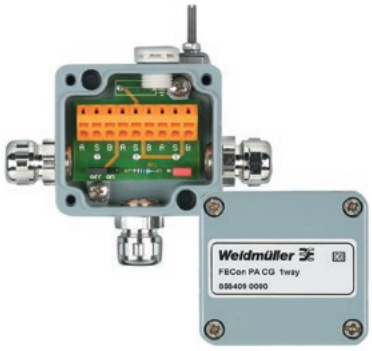
Handling information

Torques	
M16 gland to housing	6.25 Nm
M16 union nut on cable gland	4.5 Nm
Housing cover	1.8 - 2.0 Nm
External earth stud	1.8 - 2.0 Nm

Note:
We do not recommend to use PBCon products in strong saline environments.



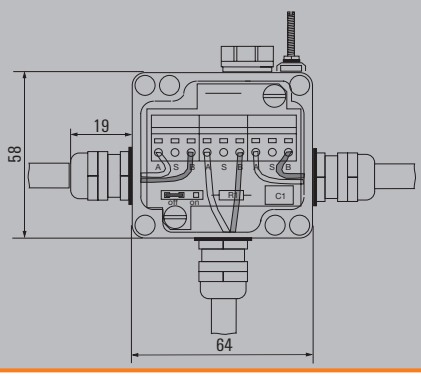
1-channel distributor



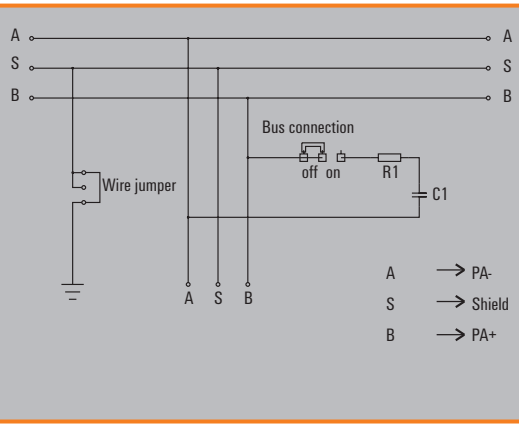
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 1way	branch line CG	1	**8564090000**
Stainless steel housing			
FBCon SS CG 1way	branch line CG	1	**8703430000**
FBCon SS PCG 1way	all connections PCG	1	**8613670000**

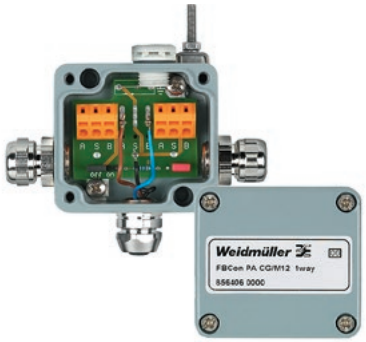
Dimensioned drawing



Wiring diagram



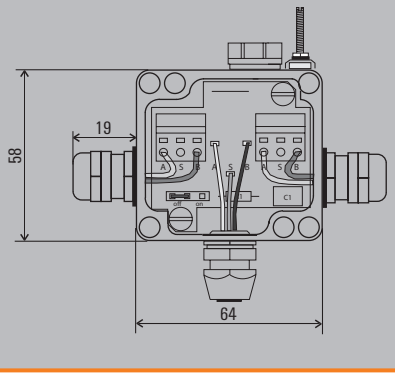
1-channel distributor



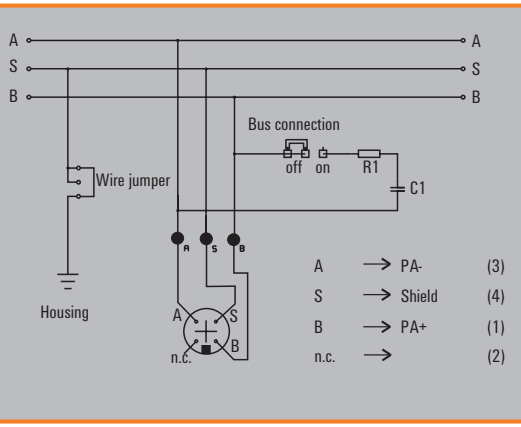
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1way	branch line M12	1	**8564060000**
Stainless steel housing			
FBCon SS CG/M12 1way	branch line M12	1	**8726020000**

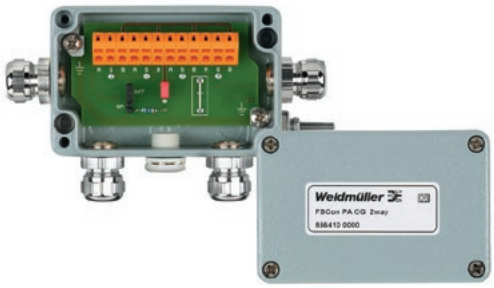
Dimensioned drawing



Wiring diagram



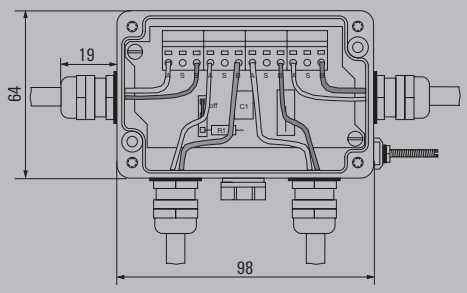
2-channel distributor



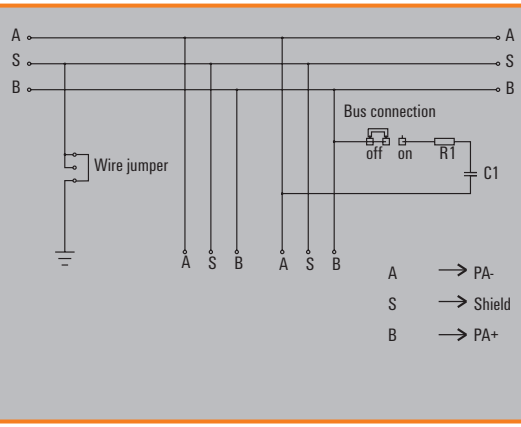
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2way	branch line CG	1	**8564100000**

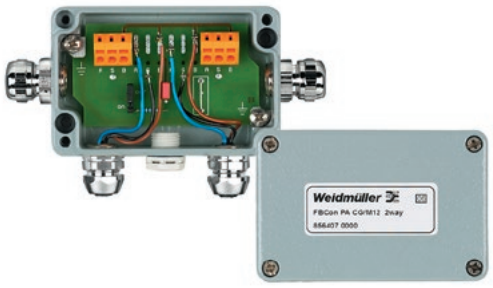
Dimensioned drawing



Wiring diagram



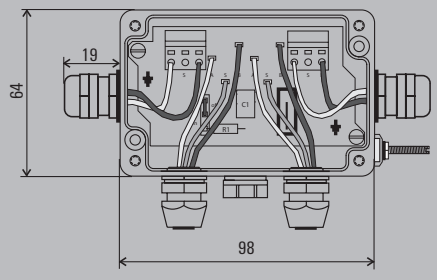
2-channel distributor



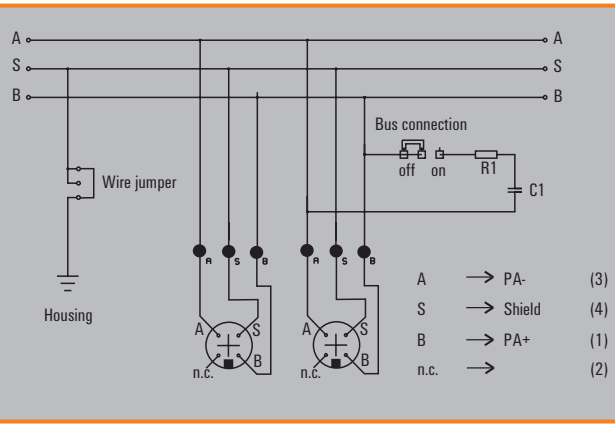
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2way	branch line M12	1	**8564070000**

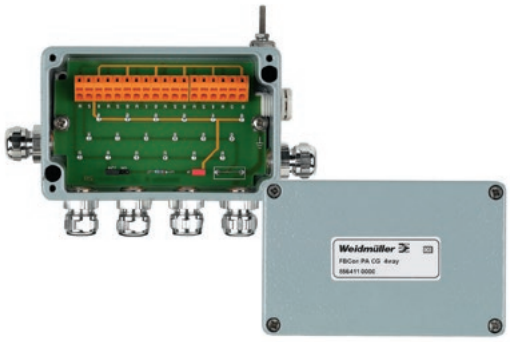
Dimensioned drawing



Wiring diagram



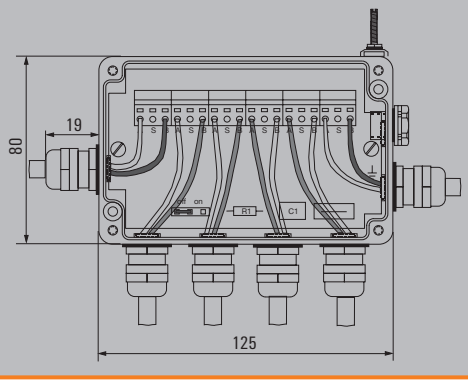
4-channel distributor



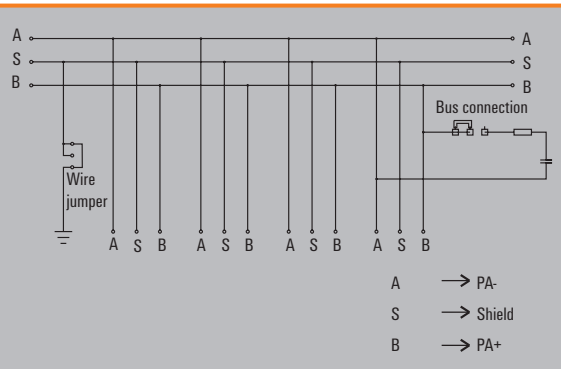
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 4way	branch line CG	1	**8564110000**
Stainless steel housing			
FBCon SS CG 4way	branch line CG	1	**8703450000**
FBCon SS PCG 4way	all connections PCG	1	**8613680000**

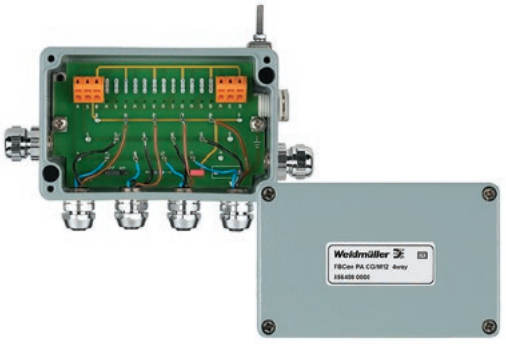
Dimensioned drawing



Wiring diagram



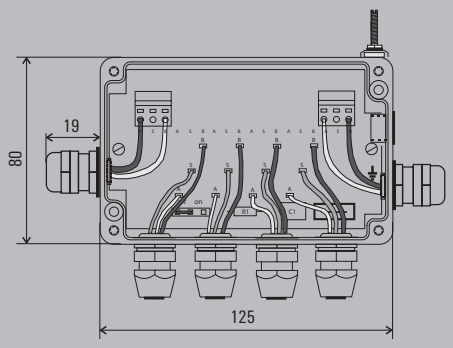
4-channel distributor



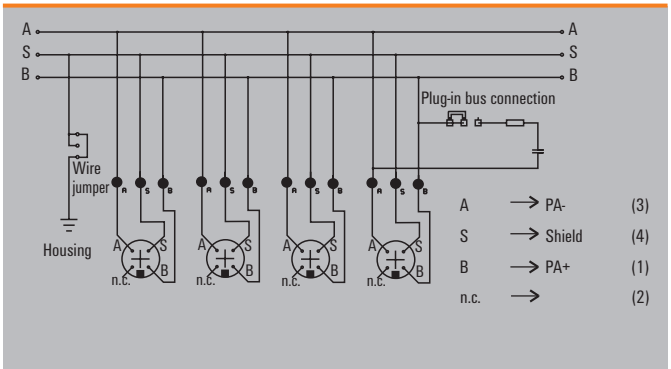
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4way	branch line M12	1	**8564080000**

Dimensioned drawing



Wiring diagram



8-channel distributor



8-channel distributor



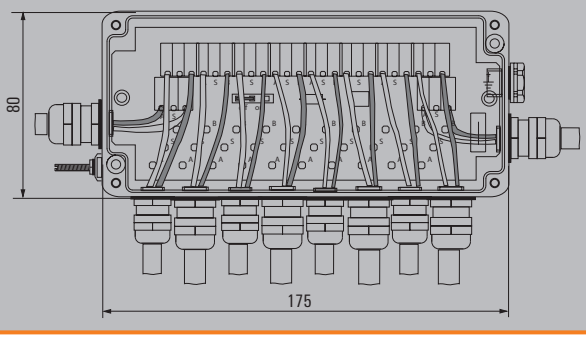
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8way	branch line CG	1	**8564300000**
Stainless steel housing			
FBCon SS CG 8way	branch line CG	1	**8703470000**

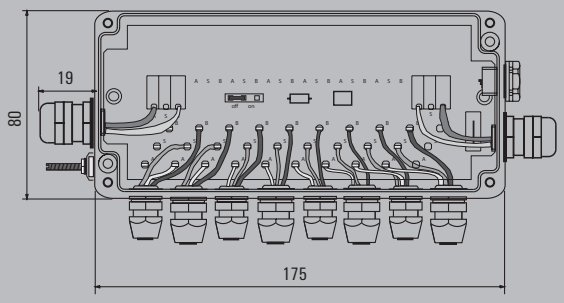
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8way	branch line M12	1	**8564310000**

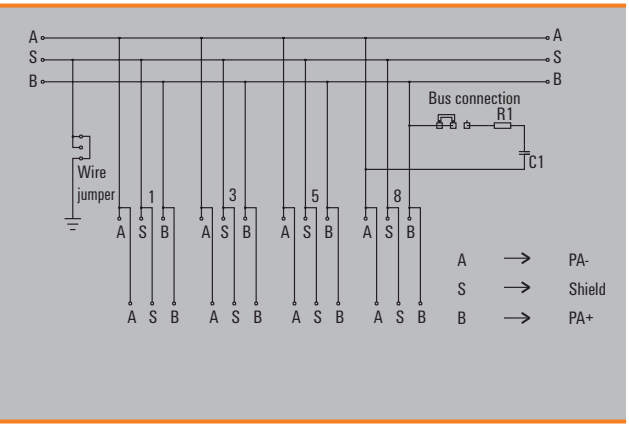
Dimensioned drawing



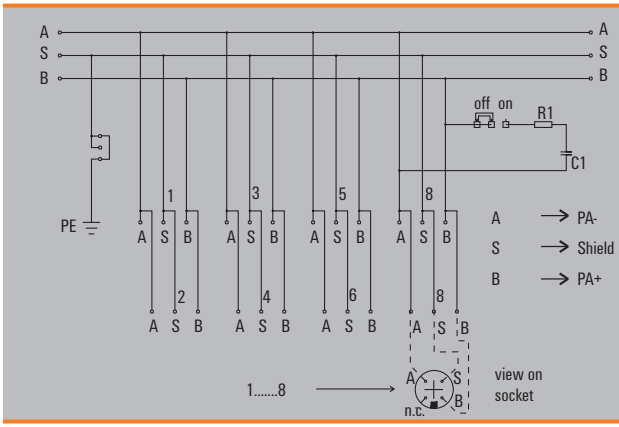
Dimensioned drawing



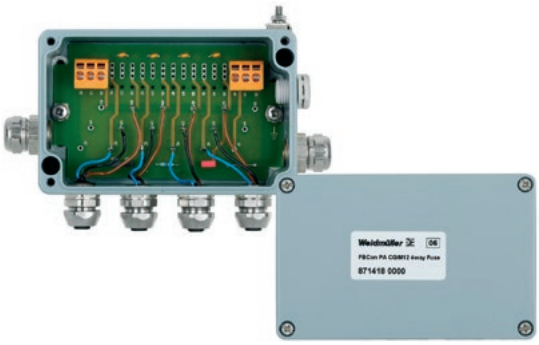
Wiring diagram

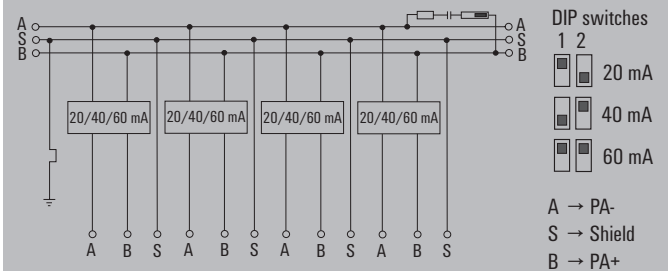


Wiring diagram



Distributor for Profibus PA/Foundation Fieldbus





Example: 4-way module with current limiter

For standard industry applications (not explosive risk zones), PROFIBUS PA fieldbus distributors and segment protectors („limiters“) are available as 1-way, 2-way, 4-way and 8-way distributors.

FBCon segment protectors are designed to protect connected field devices against surge voltages and short circuits. Suppressor diodes are used as voltage-limiting protective elements. The integrated current limiting protects the segment against short circuits at a stub cable.

EMC cable glands, the IP66 protection class and a wide operating temperature range reliably protect your connections in harsh environments.

Limiter
Technical data

Operating temperature	-40 °C to 55 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (AL - SI 12)
Finish	Painted RAL 7001
PROFIBUS-PA connection	Tension clamp terminals 0.5 - 1.5 mm²
Cable entry	Cable gland M16
Branch	M12 socket (4-pin)
Cable gland clamping range	5.5 - 9.5 mm
Short-circuit protection per station	20, 40, 60 mA settings
PROFIBUS-PA bus terminator	Via jumper

Installation advice

Torques	
Screw terminals	0.4 Nm
M16 cable gland at enclosure	6.0 Nm
Union nut M16 cable gland	4.0 Nm
Enclosure cover	1.8 - 2.0 Nm
External earthing cable	1.8 - 2.0 Nm

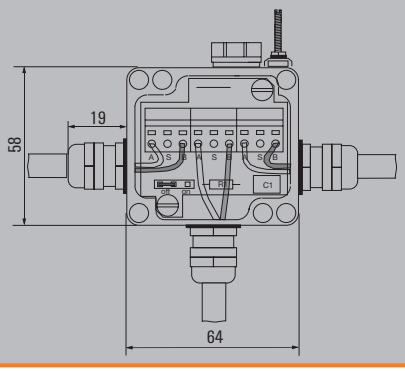
1-channel distributor (limiter)



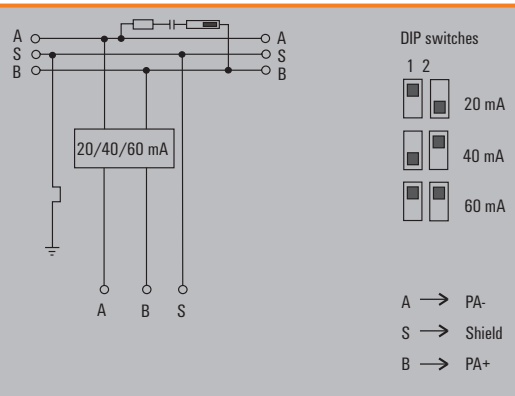
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 1way Limiter	branch line CG	1	**8714200000**
Stainless steel housing			
FBCon SS PCG 1way Limiter	all connections PCG	1	**8726110000**

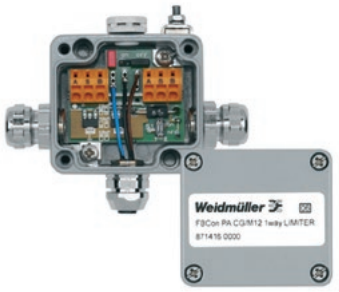
Dimensioned drawing



Wiring diagram



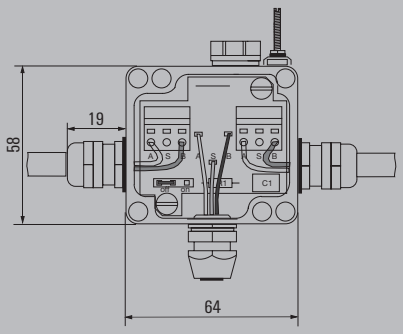
1-channel distributor (limiter)



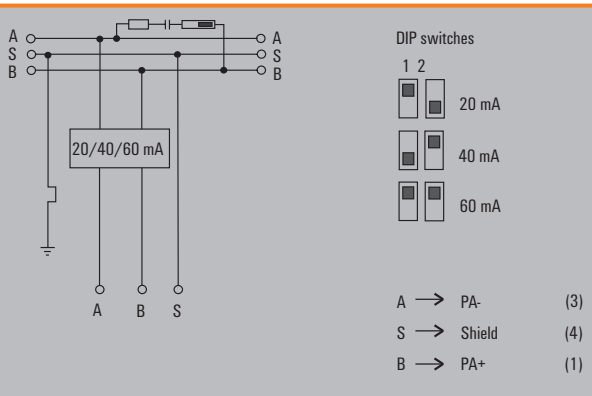
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1way Limiter	branch line M12	1	**8714160000**

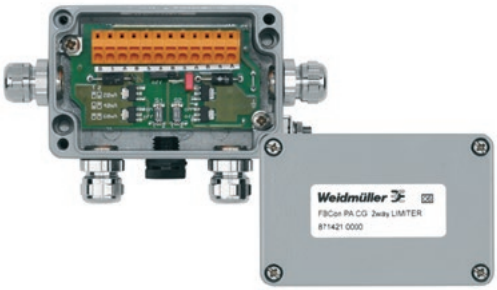
Dimensioned drawing



Wiring diagram



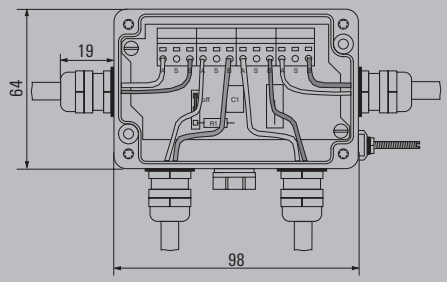
2-channel distributor (limiter)



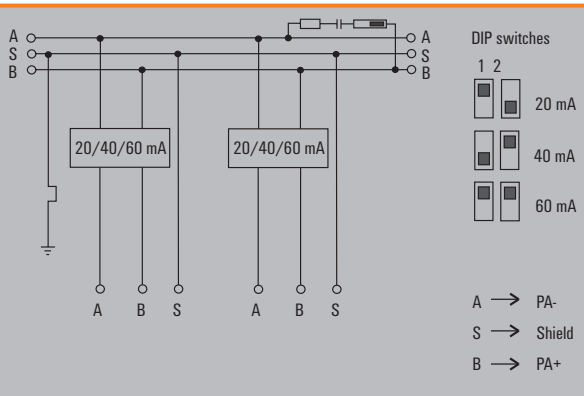
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2way Limiter	branch line CG	1	**8714210000**

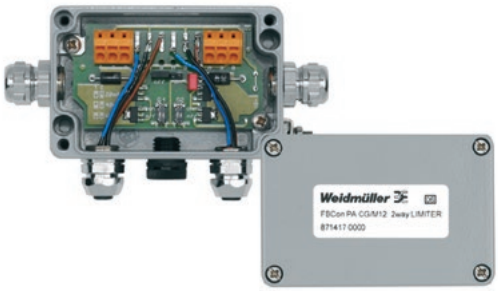
Dimensioned drawing



Wiring diagram



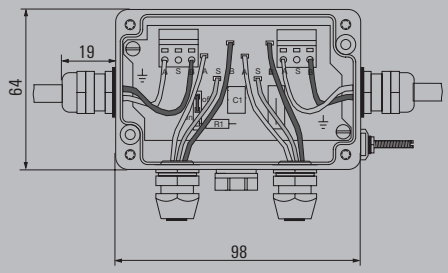
2-channel distributor (limiter)



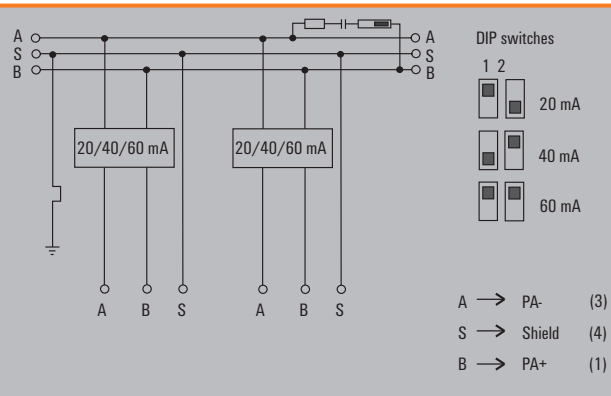
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2way Limiter	branch line M12	1	**8714170000**

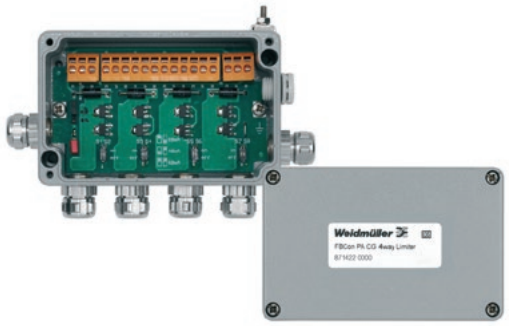
Dimensioned drawing



Wiring diagram



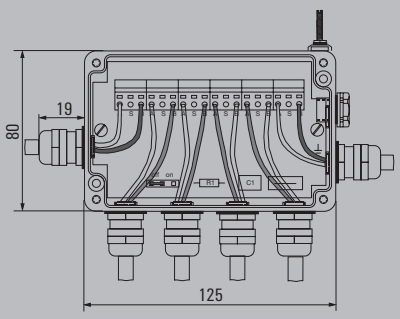
4-channel distributor (limiter)



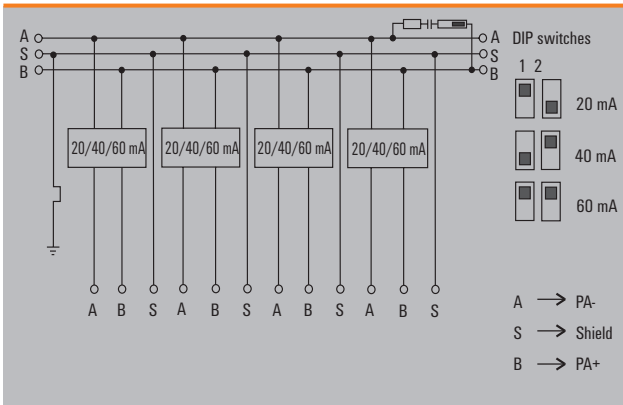
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 4way Limiter	branch line CG	1	**8714220000**
Stainless steel housing			
FBCon SS PCG 4way Limiter	all connections PCG	1	**8715260000**

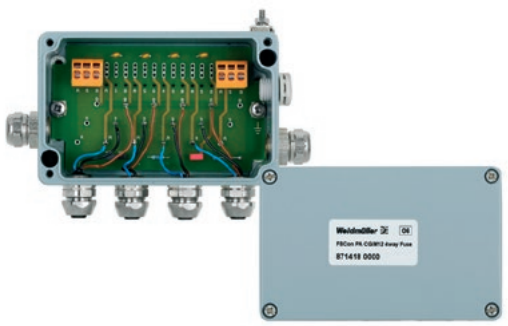
Dimensioned drawing



Wiring diagram



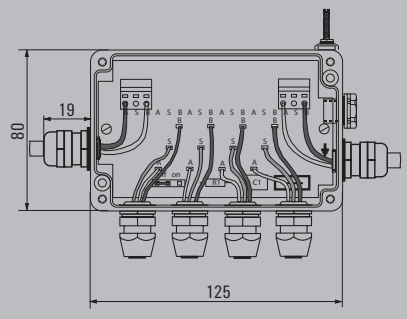
4-channel distributor (limiter)



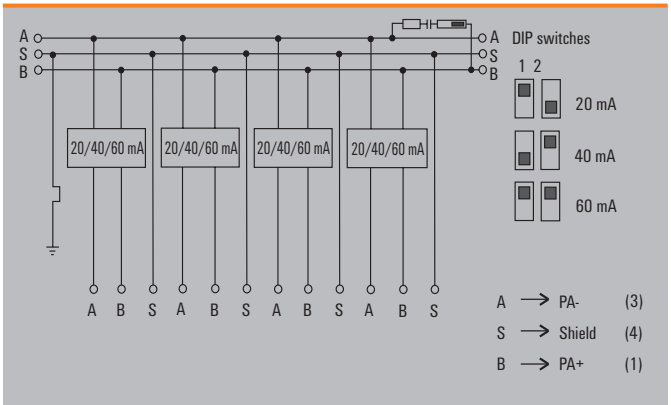
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4way Limiter	branch line M12	1	**8714180000**

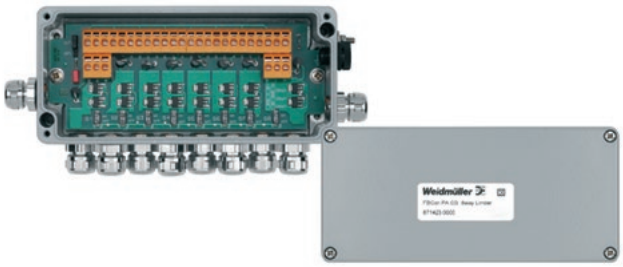
Dimensioned drawing



Wiring diagram



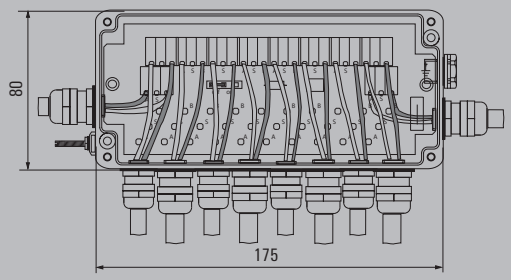
8-channel distributor (limiter)



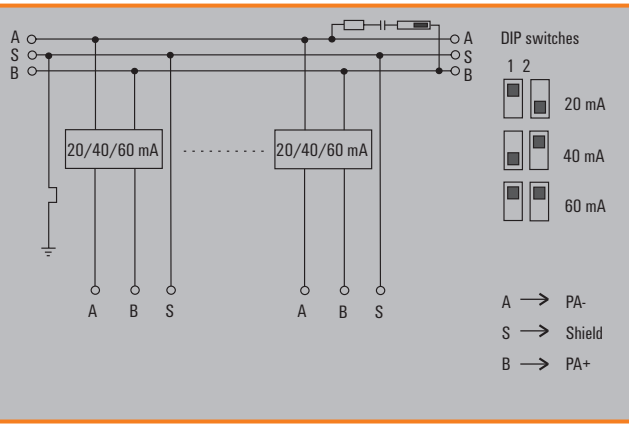
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8way Limiter	branch line CG	1	**8714230000**
Stainless steel housing			
FBCon SS PCG 8way Limiter	all connections PCG	1	**8726160000**

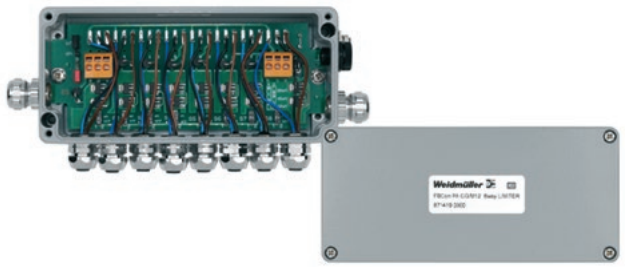
Dimensioned drawing



Wiring diagram



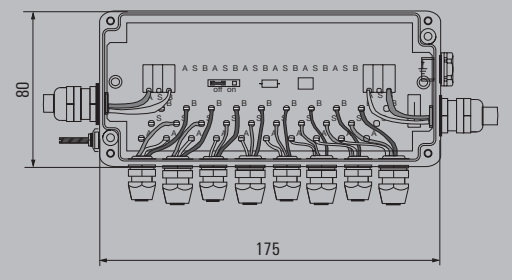
8-channel distributor (limiter)



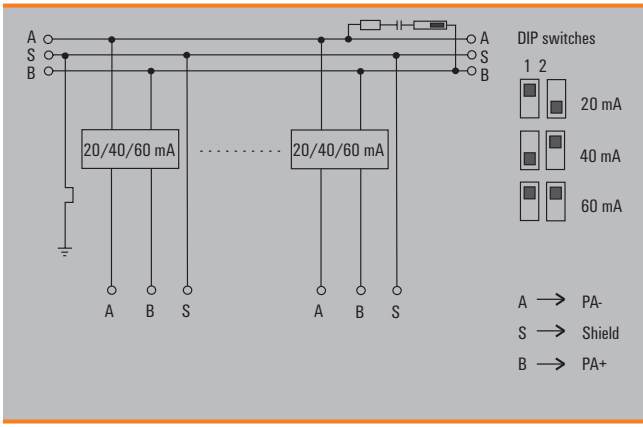
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 8way Limiter	branch line M12	1	**8714190000**

Dimensioned drawing



Wiring diagram



Distributor for Profibus PA in explosive risk zones

For applications in explosive risk zones, PROFIBUS PA Ex fieldbus distributors are available as 1-way, 2-way, 4-way and 8-way distributors.

EMC cable glands, the IP66 protection class and a wide operating temperature range reliably protect your connections in harsh environments.

Functionality
- Approval for intrinsically safe use ATEX approval
- EMC cable glands for main and stub cables
- M12 plug for stub cables
- External earth stud
- Pressure-equalising element
- IP66 protection class
- Versions in aluminium
- Profibus-PA-compatible



Approvals



DEKRA

CERTIFICATE

EC-Type Examination

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: KEMA 01ATEX1038 issue number:3

(4) Equipment: Bus Terminator Module Type FBCon bus and Bus Distribution Module Type FBCon-...

(5) Manufacturer: Weidmüller Interface GmbH & Co

(6) Address: Klingenbergstraße 16, 32758 Detmold, Germany

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, (OJEC No. L 100/1 19.04.94) hereby certifies that the equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report number 2007712.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 + A1 + A2 EN 50020 : 2002

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

Ex II 2 G Ex ia IIC T6 Gb
II 2 D Ex ia IIIC T85°C Db

This certificate is issued on 17 December 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of [one of] the standards mentioned above, as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

Certification Manager

Page 1/3

This certificate may only be reproduced in its entirety and without any change, schedule included. Only certificates with a valid signature are valid. Certificates may be verified via www.dekra-certification.com

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T +31 88 96 83000, F +31 88 96 83100, www.dekra-certification.com, Registered: Arnhem 09085396

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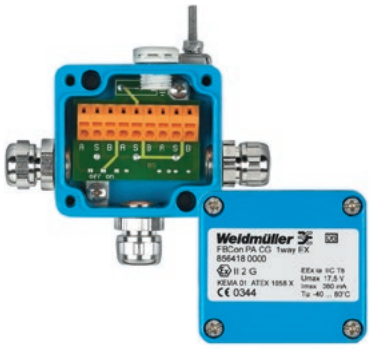
EAC

Ex

Note:
FBCon products with aluminium housings and/or M12 connections are not recommended for use in extremely saline environments.

PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)

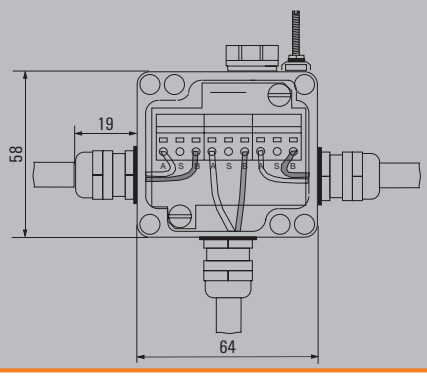
1-channel distributor Ex



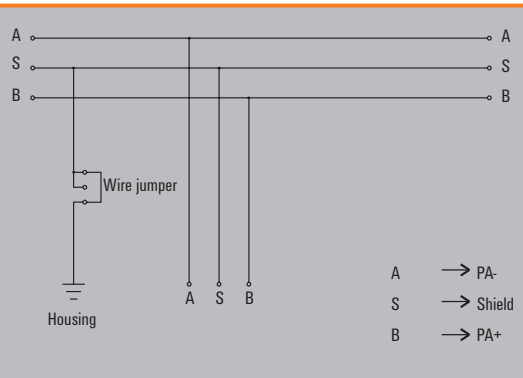
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 1way Ex	branch line CG	1	**8564180000**

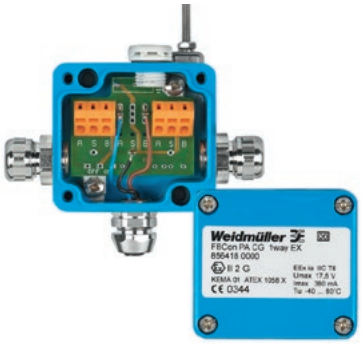
Dimensioned drawing



Wiring diagram



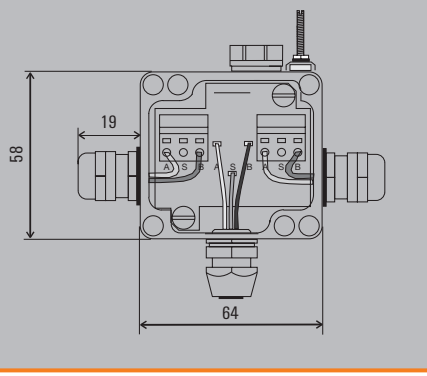
1-channel distributor Ex



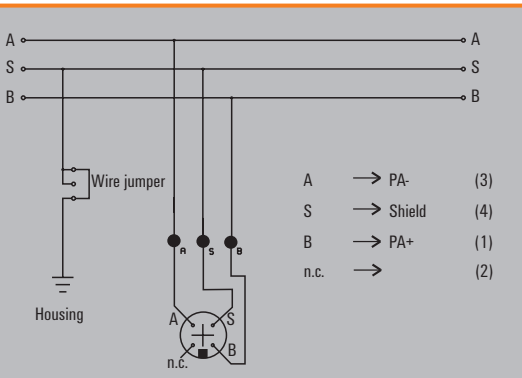
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 1way Ex	branch line M12	1	**8564150000**

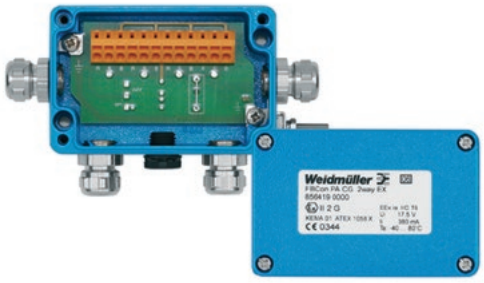
Dimensioned drawing



Wiring diagram



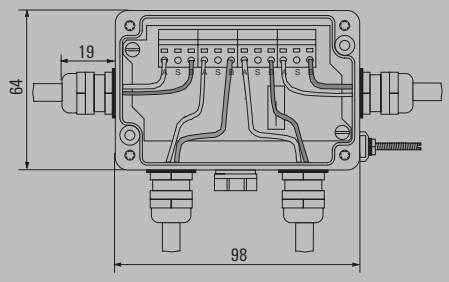
2-channel distributor Ex



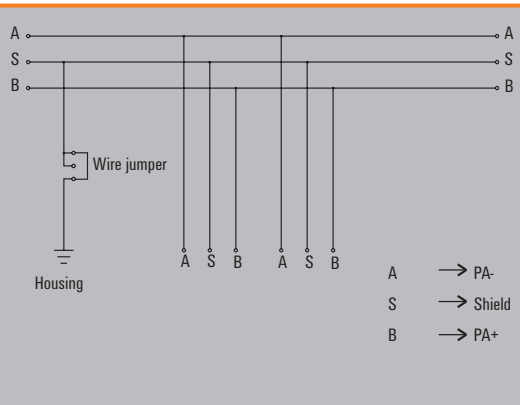
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 2way Ex	branch line CG	1	**8564190000**

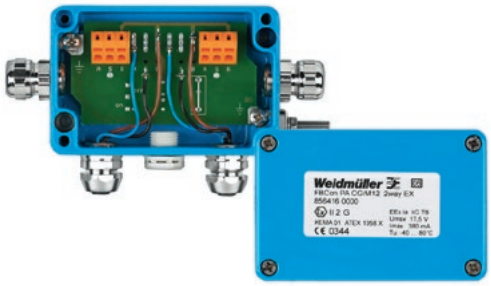
Dimensioned drawing



Wiring diagram



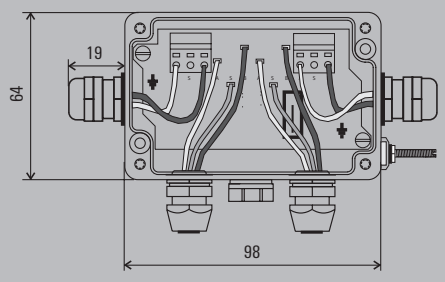
2-channel distributor Ex



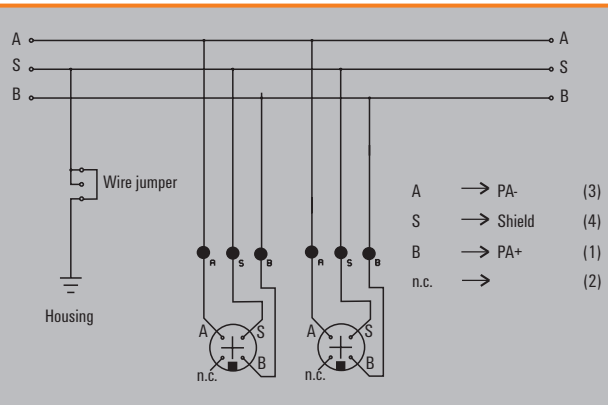
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 2way Ex	branch line M12	1	**8564160000**

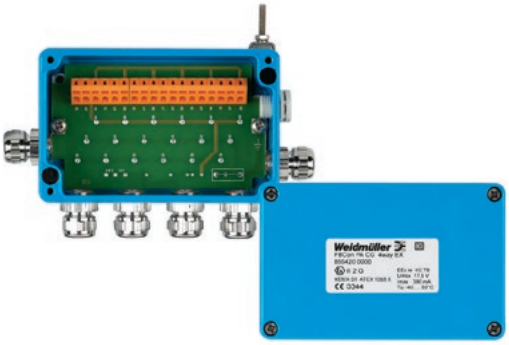
Dimensioned drawing



Wiring diagram



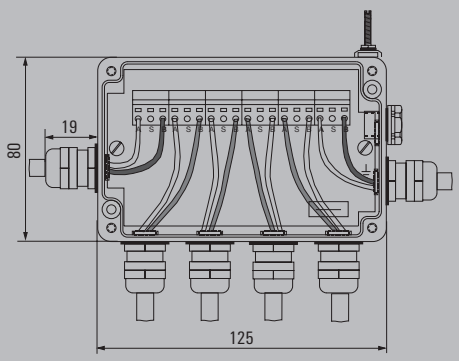
4-channel distributor Ex



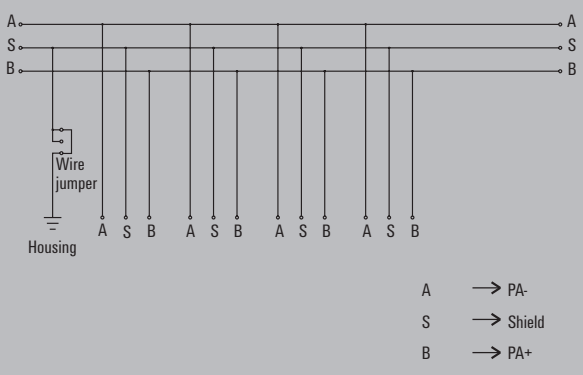
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 4way Ex	branch line CG	1	**8564200000**

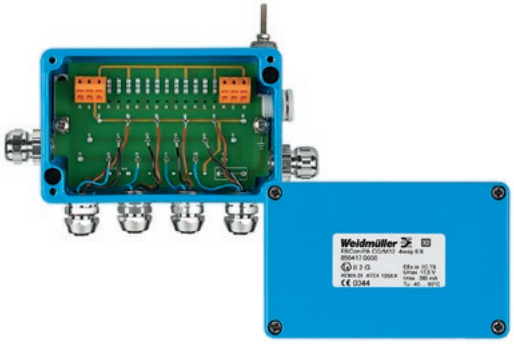
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Wiring diagram



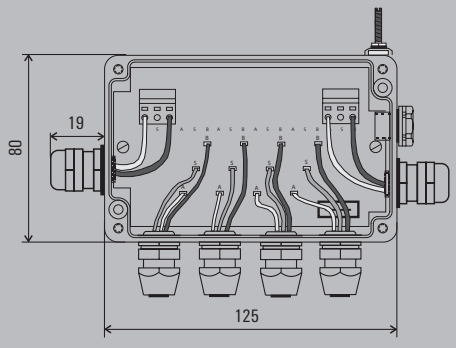
4-channel distributor Ex



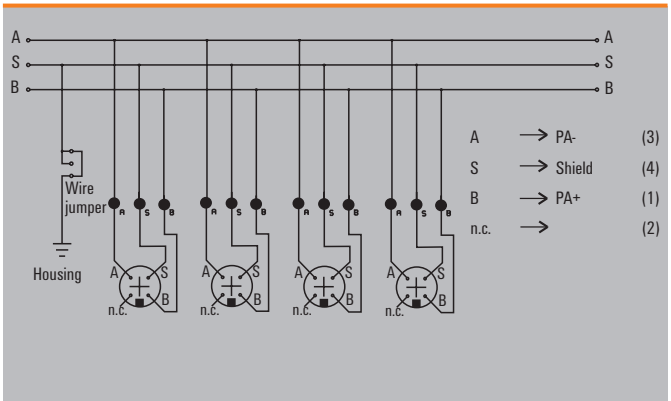
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG/M12 4way Ex	branch line M12	1	**8564170000**

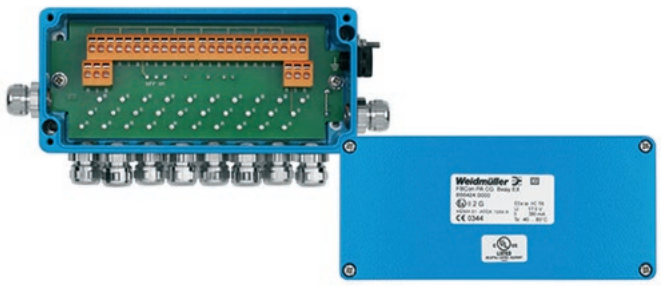
Dimensioned drawing



Wiring diagram



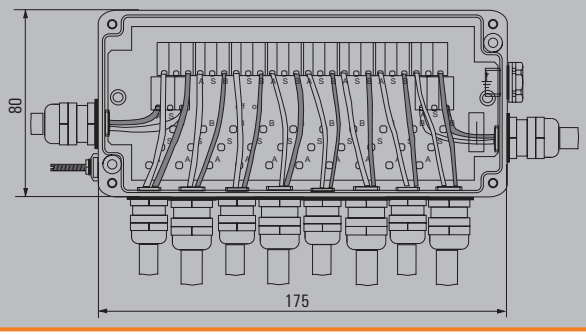
8-channel distributor Ex



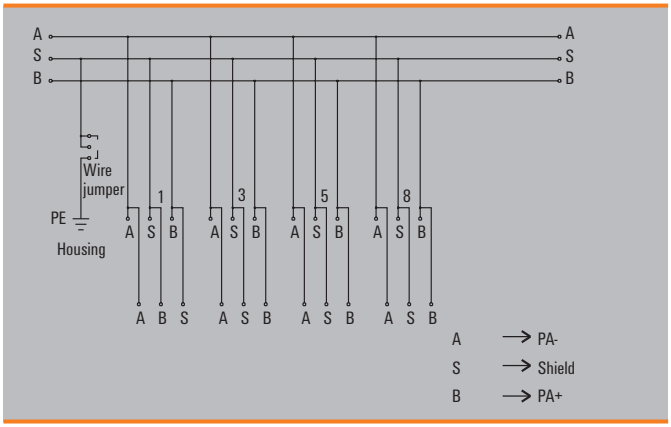
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCon PA CG 8way Ex	branch line CG	1	**8564240000**

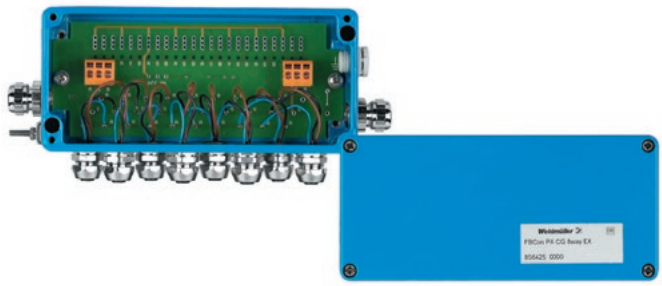
Dimensioned drawing



Wiring diagram



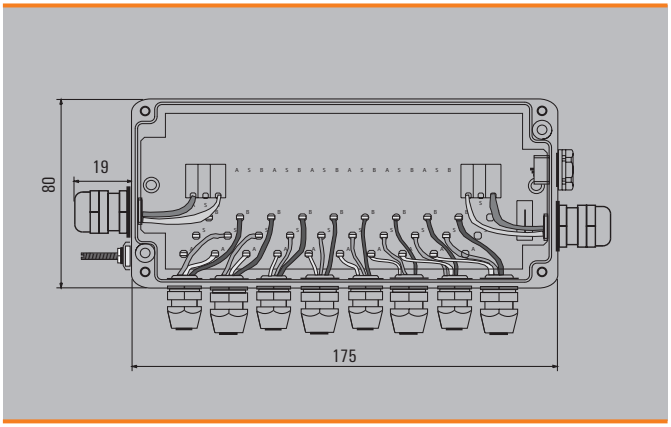
8-channel distributor Ex



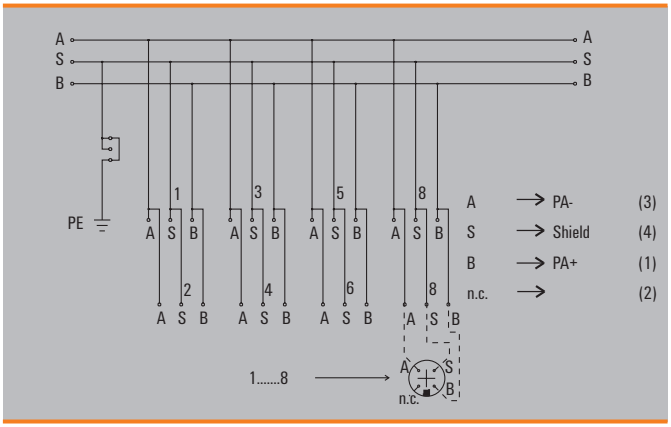
Ordering data

Type	Cable glands	Qty.	Order No.
Aluminium housing			
FBCON PA CG/M12 8WAY EX	branch line M12	1	**8564250000**

Dimensioned drawing

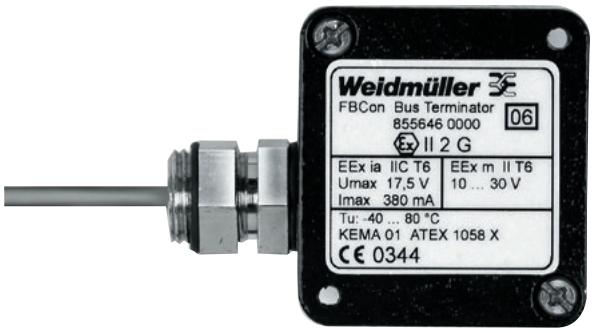


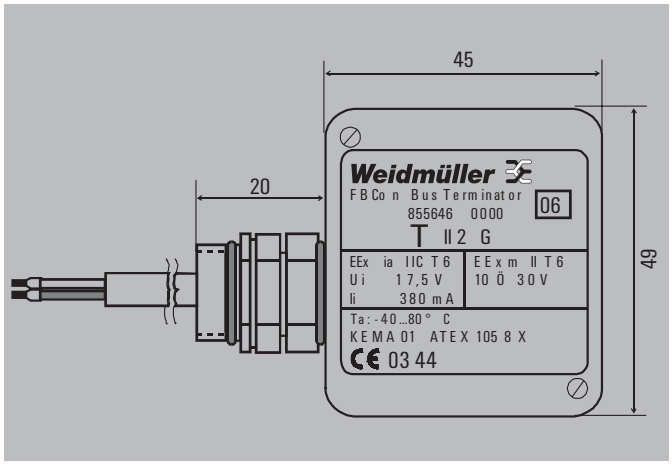
Wiring diagram



FBCon bus terminator

FBCon bus terminator without earth connection





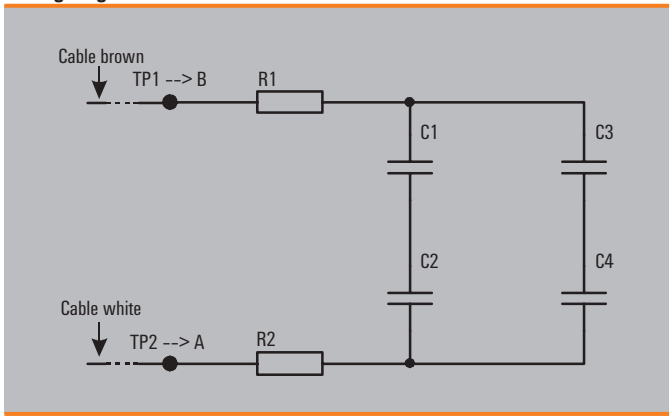
Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al – Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm²
Cable entry	Bus adapter M16

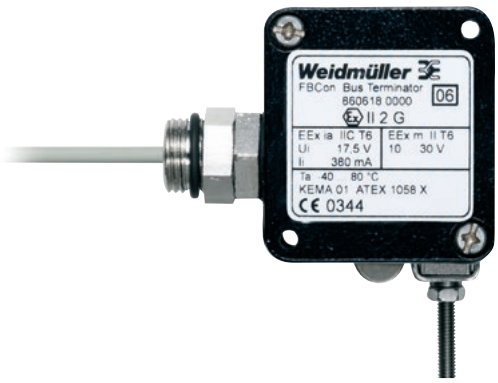
Ordering data

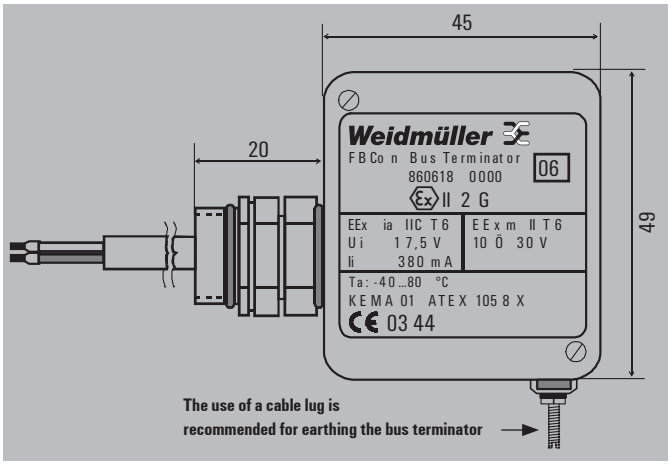
Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, without earth connection	1	**8556460000**
FBCon Bus Terminator EEx without locking clip, without earth connection	1	**8606190000**

Wiring diagram



FBCon Bus Terminator with earth connection





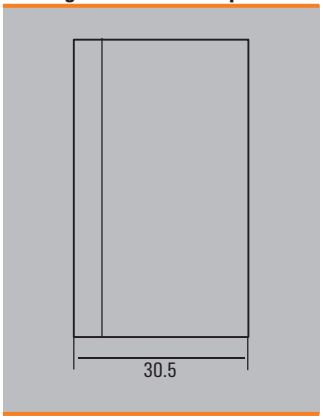
Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al – Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm²
Cable entry	Bus adapter M16

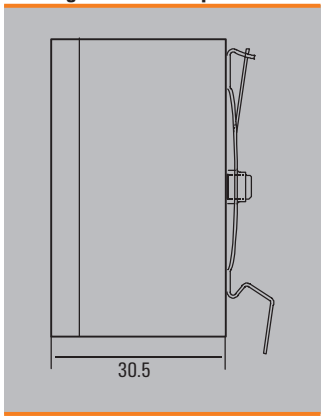
Ordering data

Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, withearth connection	1	**8606180000**
FBCon Bus Terminator EEx without locking clip, with earth connection	1	**8606200000**

Housing cover without clip-on foot



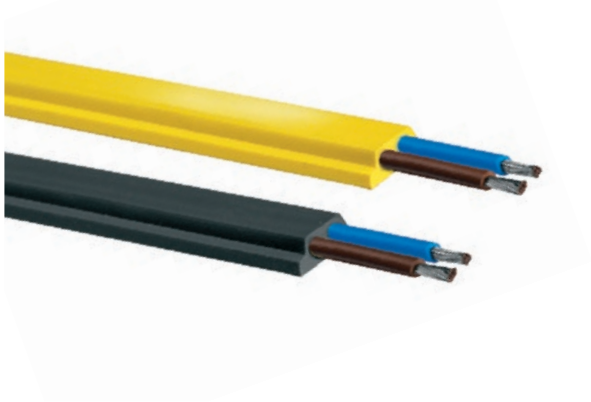
Housing cover with clip-on foot




Weidmüller
06
FBCon PA CG 1way EX
856418 0000
II 2 G
KEMA 01 ATEX 1058 X
CE 0344
EEx ia IIC T6
Umax 17,5 V
Imax 380 mA
Tu: -40 ... 80°C
Weidmüller
FBCon Bus Terminator
855646 0000
06
II 2 G
EEx ia IIC T6
Umax 17,5 V
Imax 380 mA
EEx m II T6
10 ... 30 V
Tu: -40 ... 80 °C
KEMA 01 ATEX 1058 X
CE 0344

AS-Interface ribbon cables

AS-Interface ribbon cable, rubber



Technical data

Use	AS-Interface
Colour	yellow, black
Type of cable	profiled cable
Conductor cross-section	2 x 1.5 mm²
Material	EPDM (rubber)
Halogen-free	yes
Temperature range (at rest)	–40 °C ... +85 °C
Temperature range (moving)	–25 °C ... +85 °C
Flammability class	flammable
Ozone/weather-resistant	partially resistant
Minimum bending radii	fixed: 12 mm movable: 24 mm
Flexural properties	no break after 30,000 backward and forward movements

Ordering data

Type	Designation	Qty.	Order No.
AS-KG-ge	Ribbon cable yellow	100 m	**9455110000**
AS-KG-sw	Ribbon cable black	100 m	**9455120000**

Coupling module single from ribbon cable to round cable



Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	1
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	–25 °C ... +75 °C
Storage temperature	–40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 67
Weight	20 g
M12 Pin assignment	
Pin 1: blue	AS-Interface „+" blue
Pin 3: brown	AS-Interface „–" brown

Ordering data

Type	Qty.	Order No.
SAI-ASI T FR	1	**1925010000**

Bridge module ribbon cable



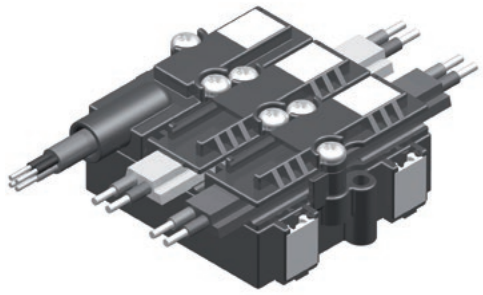
Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR solid
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	–25 °C ... +75 °C
Storage temperature	–40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65
Weight	20 g without cable

Ordering data

Type	Qty.	Order No.
SAI-ASI T FF small	1	**1026090000**

Coupling module ribbon cable to round cable / yellow + black (2 m)



Technical data

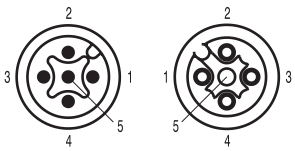
Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	–25 °C ... +75 °C
Storage temperature	–40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65 / IP 67
Weight	50 g without cable
M12 Pin assignment	
Pin 1: brown	AS-Interface „+“
Pin 2: white	ext. power supply „–“
Pin 3: blue	AS-Interface „–“
Pin 4: black	ext. power supply „+“

Ordering data

Type	Qty.	Order No.
SAI-ASI T FFR	1	**1924980000**

One end without connector
M12
A-coded





Male Female

Ordering data

		5-pole
Male, straight		
PUR/TPE	1.5 m	SAIL-M12G-CD-1.5A **1964700150**
PVC/PVC	1.5 m	SAIL-M12G-CD-1.5B **1060110150**
Male, angled		
PUR/TPE	1.5 m	SAIL-M12W-CD-1.5A **1062220150**
PVC/PVC	1.5 m	SAIL-M12W-CD-1.5B **1062170150**
Female, straight		
PUR/TPE	1.5 m	SAIL-M12BG-CD-1.5A **1964690150**
PVC/PVC	1.5 m	SAIL-M12BG-CD-1.5B **1060120150**
Female, angled		
PUR/TPE	1.5 m	SAIL-M12BW-CD-1.5A **1061980150**
PVC/PVC	1.5 m	SAIL-M12BW-CD-1.5B **1062180150**
Note		Other versions on request

Standard cable lengths

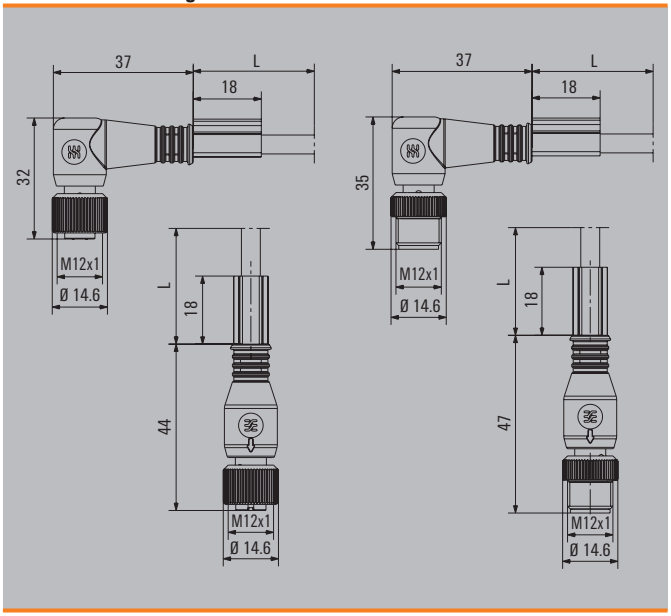
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Protection degree	IP67
Wire cross section	2 x 0.34 mm² + 2 x 0.22 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

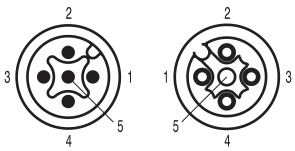
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to M12
A-coded







Ordering data

		5-pole
Male, straight - Female, straight		
PUR/TPE	1.5 m	SAIL-M12GM12G-CD-1.5A **1964710150**
PVC/PVC	1.5 m	SAIL-M12GM12G-CD-1.5B **1060130150**
Male, straight - Female, angled		
PUR/TPE	1.5 m	SAIL-M12GM12W-CD-1.5A **1061990150**
PVC/PVC	1.5 m	SAIL-M12GM12W-CD-1.5B **1062190150**
Male, angled - Female, angled		
PUR/TPE	1.5 m	SAIL-M12WM12W-CD-1.5A **1062150150**
PVC/PVC	1.5 m	SAIL-M12WM12W-CD-1.5B **1062210150**
Note		Other versions on request

Standard cable lengths

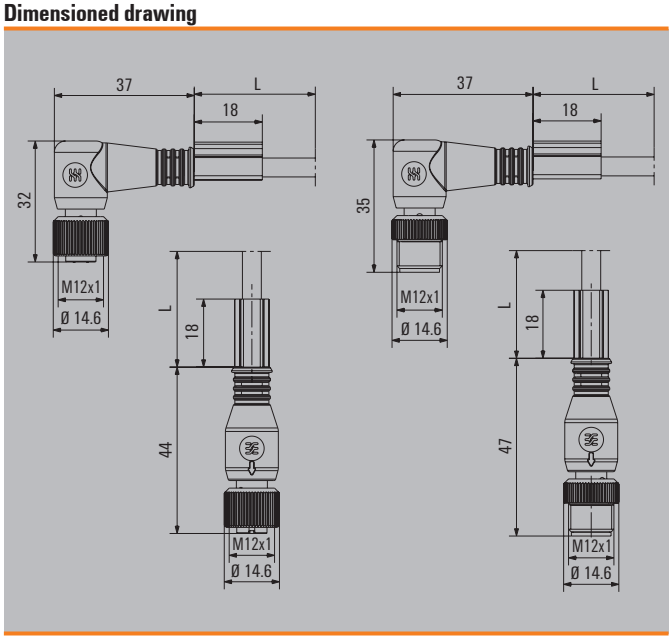
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	black
Protection degree	IP67
Wire cross section	2 x 0.34 mm² + 2 x 0.22 mm²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

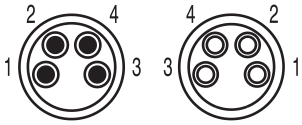
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



M

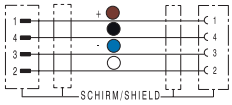
The four-pole Standard M8 sensor cables are especially well suited for the Universal Pro system.
With their diameter of 0.34 mm², these cables allow a system to be expanded up to 50 meters.
The 360° shielding guarantees that signal transmission is error-free.



Male Female

Universal Pro cables





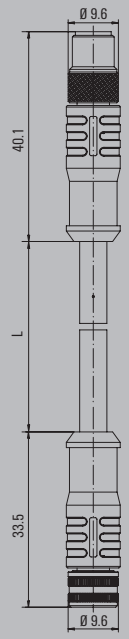
Terminating resistor



Technical data

Cable construction	
No. of poles	4
Sheathing colour	grey
Material	PUR/PUR
Core cross-section	0.34 mm²
Contact surface	Gold-plated
Nominal voltage	30 V
Rated current	4 A
Protection class	IP 67
Ambient temperature, min.	-30 °C
Ambient temperature, max.	90 °C
Note	

Dimensioned drawing



L in the drawing is the cable length

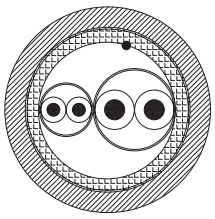
Ordering data

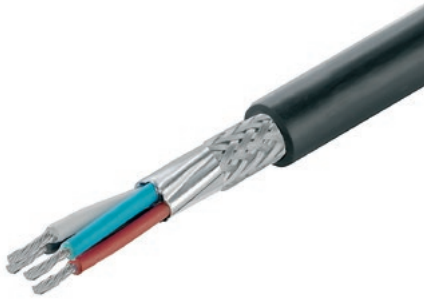
Male, straight - female, straight	Type	Qty.	Order No.
0.3 m	SAIL-M8GM8G-4S-0.3Q-SB	1	1981900030
1.0 m	SAIL-M8GM8G-4S-1.0Q-SB	1	1981900100
1.5 m	SAIL-M8GM8G-4S-1.5U-SB	1	1981900150
3.0 m	SAIL-M8GM8G-4S-3.0Q-SB	1	1981900300
5.0 m	SAIL-M8GM8G-4S-5.0Q-SB	1	1981900500
10.0 m	SAIL-M8GM8G-4S-10Q-SB	1	1981901000
15.0 m	SAIL-M8GM8G-4S-15Q-SB	1	1981901500
20.0 m	SAIL-M8GM8G-4S-20Q-SB	1	1981902000
Female, straight - open end			
1.5 m	SAIL-M8BG-4S-1.5U-SB	1	1981910150
3.0 m	SAIL-M8BG-4S-3.0Q-SB	1	1981910300
5.0 m	SAIL-M8BG-4S-5.0Q-SB	1	1981910500
10.0 m	SAIL-M8BG-4S-10Q-SB	1	1981911000
Note	Other versions on request		

Ordering data – Terminating resistor

	Type	Qty.	Order No.
	SAI END CAN M8 4P	1	1955340000
Note			

CAN / DeviceNet™ bulk lengths





Technical data

Component A (1x2x0.34) ST	
Conductor	Tin-plated copper 0.34 mm2 (19 wires) according to UL 1581 Tab 20.1
Insulation	Polyolefine mixture according to UL Style 80 °C 30 V colour code: 2 conductor red/black Diameter: 1.6 ±0.1 mm
Assembly	Two twisted conductors + aluminium-polyester band (Ai exterior)
Element B (1x2x0.22) ST	
Conductor	Tin-plated copper 0.22 mm² (19 wires) according to UL 1581 Tab 20.1
Insulation	Polyethylene foam skin Colour code: 2 conductors white/blue Diameter: approx. 2.0 mm
Assembly	Two twisted conductors + aluminium-polyester band (Ai exterior)
Complete assembly	Element A + Element B drilled
Drain wire	Tin-plated copper 0.34 mm² (19 wires) according to UL 1581 Tab 20.1
Shield	Tin-plated copper braiding, coverage 85 ± 5 %
Band	Fibre band
Outer cladding	Polyurethane mixture according to UL Style 80 °C 30 V Colour code: black RAL 9005
Marking	Not required
General characteristics	
Nom. impedance 0.3-20 MHz	(pair 2 x 0.22 mm²) - 120 ±10 % Ω
Nominal power rating 800 Hz	(pair 2 x 0.22 mm²) - 39 pF/mt
Operating voltage	Low-voltage computer cable
Test voltage	1000 V
Conductor resistance	Conductor A: max. 55 Ω/km at 20 °C Conductor B: max. 90 Ω/km at 20 °C
Min. bending radius	5 x D (during installation) 10 x D (during operations)
Temperature range	-40 °C...+80 °C (during installation) -10 °C ... +80 °C (during operations)
Reference	UL 1581
Attenuation (max.)	0.5 MHz ... 1.64 bd/100 mt
(pair 0.22 mm²)	1.0 MHz ... 2.30 db/100 mt
Max. speed	180 mt/min
Max. acceleration	5 mt/s²
Copper weight	33.6 kg/km (approx.)
Total weight	79 kg/km (approx.)

Note

Ordering data

	4-pole
Note	

Type	Order No.
SAIH-CD-2x0.34/2x0.22-PURs	**1058630000**

M

M12 screw connection
with shield connection
A-coded

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male			
	5-pole. PG 9		
Female			
	5-pole. PG 9		
Note			

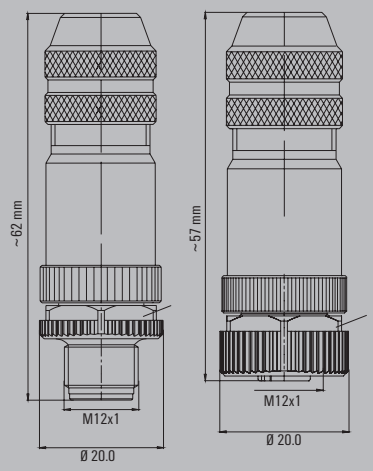
Type	Qty.	Order No.
SAIS-M-5/8S M12 5P A-COD	1	**1784740000**
SAIB-M-5/8S M12 5P A-COD	1	**1784750000**
Other versions on request		

Type	Qty.	Order No.
SAISW-M-5/8 M12	1	**1803940000**
SAIBW-M-5/8 M12	1	**1803920000**
Other versions on request		

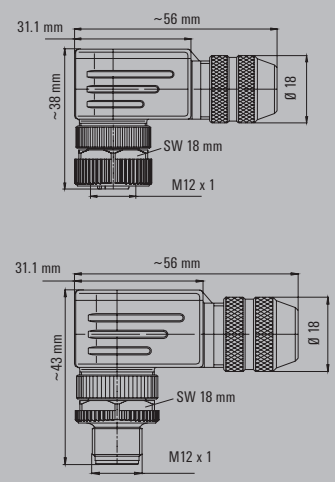
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	125 V	125 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub
M12 cable connection
90° exit angle

CAN D-Sub M12 TERM

With bus termination switch



CAN D-Sub M12 TERM PS

With bus termination switch and programming interface



Ordering data

Type	Qty.	Order No.
CAN SUB-D M12 TERM	1	1555270000
Other versions on request		

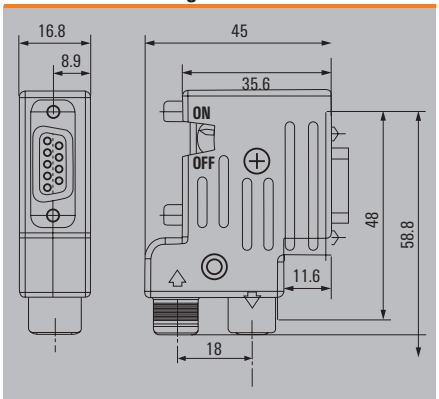
Type	Qty.	Order No.
CAN SUB-D M12 TERM PS	1	1555280000
Other versions on request		

Technical data

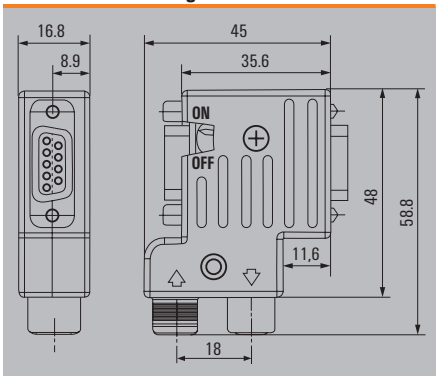
Outgoing elbow	90°
Data rate	1 Mbps
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	M12 A-coded, pin + socket
BUS interface	D-Sub 9-pole, Socket
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

90°	
1 Mbps	
Max. 75% at +25°C, non-condensing	
ZnAl	
M12 A-coded, pin + socket	
D-Sub 9-pole, Socket	
IP30	
≥ 200	
-20...+70 ° C	
UNC4-40	

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub
Screw connection
35° exit angle

CAN D-Sub SK35 TERM
With bus termination switch



CAN D-Sub SK35 TERM PS
With bus termination switch and programming interface



Ordering data

Type	Qty.	Order No.
CAN SUB-D SK35 TERM	1	1550600000
Other versions on request		

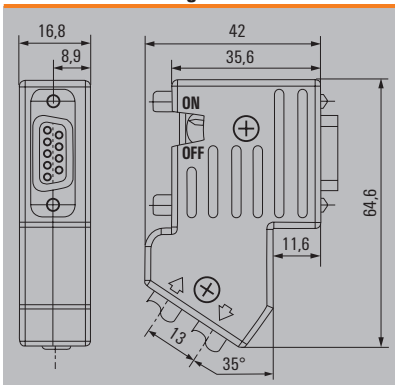
Type	Qty.	Order No.
CAN SUB-D SK35 TERM PS	1	1550610000
Other versions on request		

Technical data

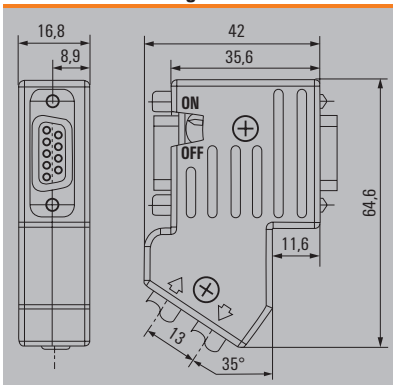
Outgoing elbow	35°
Data rate	1 Mbps
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Screw connection
BUS interface	D-Sub 9-pole, Socket
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

35°	
1 Mbps	
Max. 75% at +25°C, non-condensing	
ZnAl	
Screw connection	
D-Sub 9-pole, Socket	
IP30	
≥ 200	
-20...+70 ° C	
UNC4-40	

Dimensioned drawing

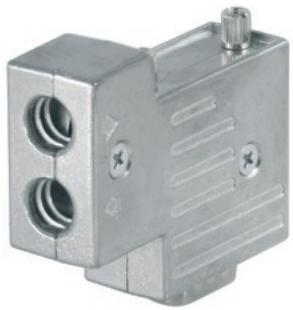


Dimensioned drawing



CAN-BUS D-Sub
Screw connection
90° exit angle

CAN D-Sub SK



CAN D-Sub SK TERM

With bus termination switch



Ordering data

Type	Qty.	Order No.
CAN SUB-D SK	1	1555300000
Other versions on request		

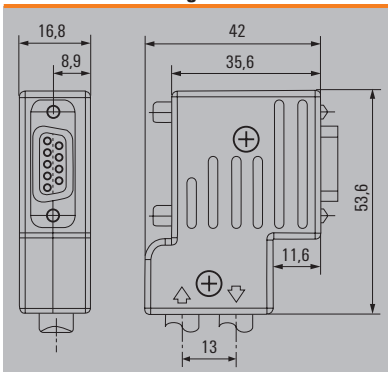
Type	Qty.	Order No.
CAN SUB-D SK TERM	1	1550580000
Other versions on request		

Technical data

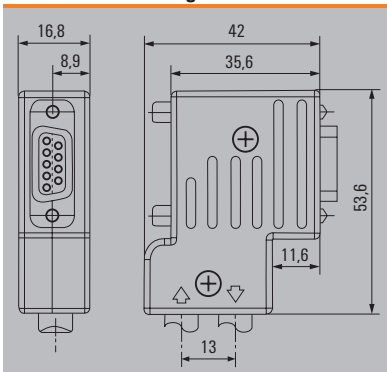
Outgoing elbow	90°
Data rate	1 Mbps
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Screw connection
BUS interface	D-Sub 9-pole, Socket
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

90°	
1 Mbps	
Max. 75% at +25°C, non-condensing	
ZnAl	
Screw connection	
D-Sub 9-pole, Socket	
IP30	
≥ 200	
-20...+70 ° C	
UNC4-40	

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub
M12 cable connection
180° exit angle

CAN D-Sub M12 180 TERM

With bus termination switch



Ordering data

Type	Qty.	Order No.
CAN SUB-D M12 180 TERM	1	1555290000

Note

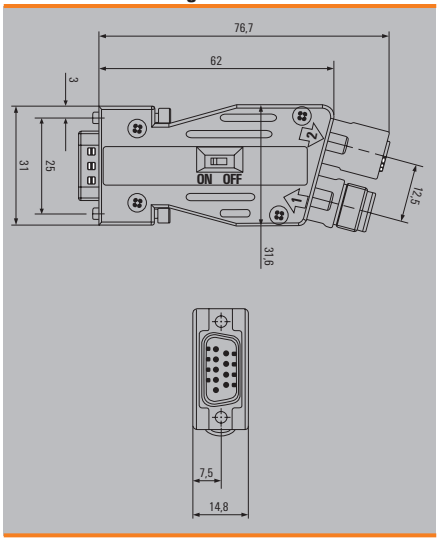
Other versions on request

Technical data

Outgoing elbow	180°
Data rate	1 Mbps
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	M12 A-coded, pin + socket
BUS interface	D-Sub 9-pole, Socket
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

Dimensioned drawing



CAN-BUS D-Sub
Screw connection
90° exit angle

CAN D-Sub SK TERM PS

With bus termination switch and programming interface



Ordering data

Type	Qty.	Order No.
CAN SUB-D SK TERM PS	1	1550590000

Note

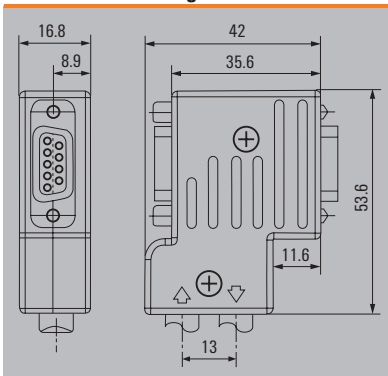
Other versions on request

Technical data

Outgoing elbow	90°
Data rate	1 Mbps
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Screw connection
BUS interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

Dimensioned drawing



M

Universal D-Sub plug, 9-pole
M12 screw connection
35° exit angle
1:1 wired

SAI-D-Sub 9 SK35



Ordering data

Type	Qty.	Order No.
SAI-SUB-D 9 SK35	1	1551080000

Note

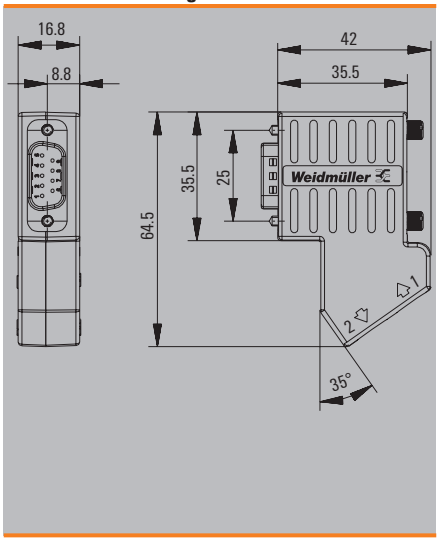
Other versions on request

Technical data

Outgoing elbow	35°
Data rate	
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
BUS, cable interface	Screw connection
BUS interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

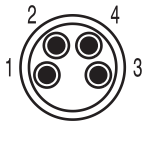
Dimensioned drawing



M

One end without connector
M8 connecting cable
M8 to M8
M8 to RJ45

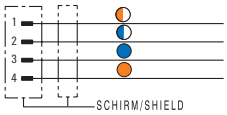


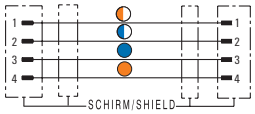


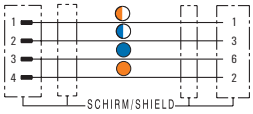
Male



RJ45







Ordering data

	M8 Male-Open Ended	4-pole	M8 Male-Male	4-pole	M8 Male-RJ45	4-pole
0.1 m	SAIL-M8G-4S0.1UIE	**1160820010**	SAIL-M8GM8SG-4S0.1UIE	**1160930010**		
0.3 m	SAIL-M8G-4S0.3UIE	**1160820030**	SAIL-M8GM8SG-4S0.3UIE	**1160930030**		
0.5 m	SAIL-M8G-4S0.5UIE	**1160820050**	SAIL-M8GM8SG-4S0.5UIE	**1160930050**		
1.0 m	SAIL-M8G-4S1.0UIE	**1160820100**	SAIL-M8GM8SG-4S1.0UIE	**1160930100**		
2.0 m	SAIL-M8G-4S2.0UIE	**1160820200**	SAIL-M8GM8SG-4S2.0UIE	**1160930200**	SAIL-M8GRJ45-4S2.0UIE	**1201210200**
3.0 m	SAIL-M8G-4S3.0UIE	**1160820300**	SAIL-M8GM8SG-4S3.0UIE	**1160930300**		
4.0 m	SAIL-M8G-4S4.0UIE	**1160820400**	SAIL-M8GM8SG-4S4.0UIE	**1160930400**		
5.0 m	SAIL-M8G-4S5.0UIE	**1160820500**	SAIL-M8GM8SG-4S5.0UIE	**1160930500**	SAIL-M8GRJ45-4S5.0UIE	**1201210500**
7.5 m	SAIL-M8G-4S7.5UIE	**1160820750**	SAIL-M8GM8SG-4S7.5UIE	**1160930750**	SAIL-M8GRJ45-4S7.5UIE	**1201210750**
10.0 m	SAIL-M8G-4S10UIE	**1160821000**			SAIL-M8GRJ45-4S10UIE	**1201211000**
15.0 m			SAIL-M8GM8SG-4S15UIE	**1160931500**		
20.0 m			SAIL-M8GM8SG-4S20UIE	**1160932000**		
30.0 m			SAIL-M8GM8SG-4S30UIE	**1160933000**		
40.0 m			SAIL-M8GM8SG-4S40UIE	**1160934000**		
50.0 m			SAIL-M8GM8SG-4S50UIE	**1160935000**		
Note						

Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.

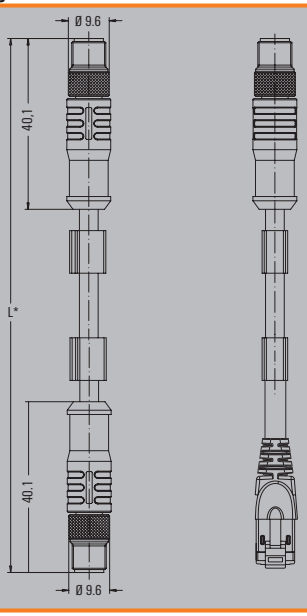
1.5 m	xxxxxx0150
3.0 m	xxxxxx0300
5.0 m	xxxxxx0500
10.0 m	xxxxxx1000

Technical data

Protection degree	IP67
Contact surface	Gold-plated
Sheathing colour	green
Temperature range of housing	-25...+80 °C
Core cross-section	0.15 mm²

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



M

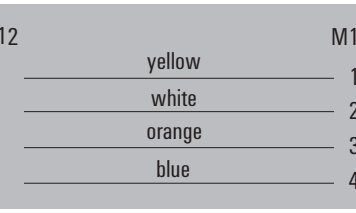
Assembled cable - dragline cable M12

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / M12

Plug / plug





M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

M12 / M12

Plug / socket



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

Technical data

Product type	Dragline cable	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 straight pin	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 straight socket
Cross-section	4*AWG 22/7 - 0.36 mm²	4*AWG 22/7 - 0.36 mm²
Sheath diameter, max.	6.7 mm	6.7 mm
Material sheath	PUR	PUR
Sheathing colour	green (RAL 6018)	green (RAL 6018)
Insulation cross-section	1.5 mm	1.5 mm
Min. bending radius, repetitive	7.5 x cable diameter	7.5 x cable diameter
Min. bending radius, once only	5 x cable diameter	5 x cable diameter
Bending cycles	3 Mio	3 Mio
Speed	180 m/min	180 m/min
Acceleration	4 m/s²	4 m/s²
Pulling force	≤ 150 N	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C	-40 °C...70 °C
Installation temperature	-20 °C...60 °C	-20 °C...60 °C
Storage temperature	-50 °C...70 °C	-50 °C...70 °C
Abrasion resistance	very good	very good
Halogen	halogen-free, according to IEC 60754-2	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	in accordance with IEC 60811-2-1
Note		

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
0.5 m	IE-C5DD4UG0005MCSMCS-E	1	1025950005			
1.5 m	IE-C5DD4UG0015MCSMCS-E	1	1025950015	IE-C5DD4UG0015MSSMCS-E	1	1059330015
3.0 m	IE-C5DD4UG0030MCSMCS-E	1	1025950030	IE-C5DD4UG0030MSSMCS-E	1	1059330030
5.0 m	IE-C5DD4UG0050MCSMCS-E	1	1025950050	IE-C5DD4UG0050MSSMCS-E	1	1059330050
10.0 m	IE-C5DD4UG0100MCSMCS-E	1	1025950100	IE-C5DD4UG0100MSSMCS-E	1	1059330100
Note						

Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
Marking tags						
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	1718411687	TM-I 12 MC NE GE	320	1718411687
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	1718431687	TM-I 18 MC NE GE	320	1718431687
Mounting tool						
Tool set	SCREWTY SET	1	1910000000	SCREWTY SET	1	1910000000
Tool set with torque function	SCREWTY SET -DM	1	1920000000	SCREWTY SET -DM	1	1920000000
Screwty-M12	SCREWTY- M12	1	1900000000	SCREWTY- M12	1	1900000000
Tools						
Mounting tool	SCREWTY-M12-DM	1	1900001000	SCREWTY-M12-DM	1	1900001000
Note						

Assembled cable - dragline cable M12

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

M12 / RJ45

Plug / plug



RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	blue	4

Technical data

Product type	Dragline cable	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / Open	M12 D-code – IP 67 straight pin / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm²	4*AWG 22/7 - 0.36 mm²
Sheath diameter, max.	6.7 mm	6.7 mm
Material sheath	PUR	PUR
Sheathing colour	green (RAL 6018)	green (RAL 6018)
Insulation cross-section	1.5 mm	1.5 mm
Min. bending radius, repetitive	7.5 x cable diameter	7.5 x cable diameter
Min. bending radius, once only	5 x cable diameter	5 x cable diameter
Bending cycles	3 Mio	3 Mio
Speed	180 m/min	180 m/min
Acceleration	4 m/s²	4 m/s²
Pulling force	≤ 150 N	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C	-40 °C...70 °C
Installation temperature	-20 °C...60 °C	-20 °C...60 °C
Storage temperature	-50 °C...70 °C	-50 °C...70 °C
Abrasion resistance	very good	very good
Halogen	halogen-free, according to IEC 60754-2	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	in accordance with IEC 60811-2-1
Note		

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
1.0 m				IE-C5DD4UG0010MCSA20-E	1	**1044470010**
1.5 m	IE-C5DD4UG0015MCSXXX-X	1	**1025940015**	IE-C5DD4UG0015MCSA20-E	1	**1044470015**
3.0 m	IE-C5DD4UG0030MCSXXX-X	1	**1025940030**	IE-C5DD4UG0030MCSA20-E	1	**1044470030**
5.0 m	IE-C5DD4UG0050MCSXXX-X	1	**1025940050**	IE-C5DD4UG0050MCSA20-E	1	**1044470050**
10.0 m	IE-C5DD4UG0100MCSXXX-X	1	**1025940100**	IE-C5DD4UG0100MCSA20-E	1	**1044470100**
Note						

Accessories

Tools	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**			
Mounting tool	SCREWTY-M12-DM	1	**1900001000**	SCREWTY-M12-DM	1	**1900001000**
Sheathing strippers						
For coaxial and round data cables	IE-CST	1	**9204350000**			
Marking tags						
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**	TM-I 18 MC NE GE	320	**1718431687**
Mounting tool						
Tool set	SCREWTY SET	1	**1910000000**	SCREWTY SET	1	**1910000000**
Tool set with torque function	SCREWTY SET -DM	1	**1920000000**	SCREWTY SET -DM	1	**1920000000**
Screwty-M12	SCREWTY- M12	1	**1900000000**	SCREWTY- M12	1	**1900000000**
Dust protection cap						
Protective cap				IE-PP-RJ45	10	**2552580000**
Note						

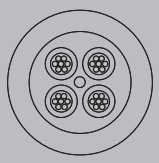
Assembled cable -
M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / M12

Plug / plug

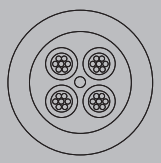




M12 / M12

Plug / plug





Technical data

Product type	Dragline cable	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 straight pin	M12 D-code – IP 67 angled pin / M12 D-code – IP 67 angled pin
Cross-section	4*AWG 22/7 - 0.36 mm²	4*AWG 22/7 - 0.36 mm²
Sheath diameter, max.	6.7 mm	6.7 mm
Material sheath	PUR	PUR
Sheathing colour	green (RAL 6018)	green (RAL 6018)
Insulation cross-section	1.5 mm	1.5 mm
Min. bending radius, repetitive	7.5 x cable diameter	7.5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C	-40 °C...70 °C
Installation temperature	-20 °C...60 °C	-20 °C...60 °C
Storage temperature	-50 °C...70 °C	-50 °C...70 °C
Abrasion resistance	very good	very good
Halogen	halogen-free, according to IEC 60754-2	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with IEC 60811-2-1	in accordance with IEC 60811-2-1
Fire safety for railway vehicles		
Note	Further technical data of the cables on catalog.	Further technical data of the cables on catalog.

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
Cat. 5 PROFINET. PUR. M12 straight-M12 angled						
1.5 m	IE-C5DD4UG0015MCSMCA-E	1	**1059770015**			
3.0 m	IE-C5DD4UG0030MCSMCA-E	1	**1059770030**			
5.0 m	IE-C5DD4UG0050MCSMCA-E	1	**1059770050**			
10.0 m	IE-C5DD4UG0100MCSMCA-E	1	**1059770100**			
Cat. 5 PROFINET. PUR. M12 angled-M12 angled						
1.5 m				IE-C5DD4UG0015MCAMCA-E	1	**1059890015**
3.0 m				IE-C5DD4UG0030MCAMCA-E	1	**1059890030**
5.0 m				IE-C5DD4UG0050MCAMCA-E	1	**1059890050**
10.0 m				IE-C5DD4UG0100MCAMCA-E	1	**1059890100**
Cat. 5. PUR. M12 angled-open						
1.5 m						
3.0 m						
5.0 m						
10.0 m						
Note						

Accessories

Marking tags	Type	Qty.	Order No.	Type	Qty.	Order No.
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**	TM-I 18 MC NE GE	320	**1718431687**
Transparent sleeves. 12-mm length	TM 4/12 HF/HB	500	**1719840000**	TM 4/12 HF/HB	500	**1719840000**
Transparent sleeves. 18-mm length	TM 4/18 HF/HB	500	**1719850000**	TM 4/18 HF/HB	500	**1719850000**
Note						

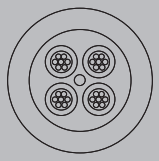
Assembled cable -
M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / open

Plug / -





Technical data

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 angled pin / Open
Cross-section	4*AWG 22/7 - 0.36 mm²
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation cross-section	1.5 mm
Min. bending radius, repetitive	7.5 x cable diameter
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with IEC 60811-2-1
Fire safety for railway vehicles	

Note

Further technical data of the cables on catalog.

Ordering data

Cat. 5 PROFINET. PUR. M12 straight-M12 angled	Type	Qty.	Order No.
1.5 m			
3.0 m			
5.0 m			
10.0 m			
Cat. 5 PROFINET. PUR. M12 angled-M12 angled			
1.5 m			
3.0 m			
5.0 m			
10.0 m			
Cat. 5. PUR. M12 angled-open			
1.5 m	IE-C5DD4UG0015MCAXXX-X	1	**1059750015**
3.0 m	IE-C5DD4UG0030MCAXXX-X	1	**1059750030**
5.0 m	IE-C5DD4UG0050MCAXXX-X	1	**1059750050**
10.0 m	IE-C5DD4UG0100MCAXXX-X	1	**1059750100**

Note

Accessories

Marking tags	Type	Qty.	Order No.
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**
Transparent sleeves. 12-mm length	TM 4/12 HF/HB	500	**1719840000**
Transparent sleeves. 18-mm length	TM 4/18 HF/HB	500	**1719850000**

Note

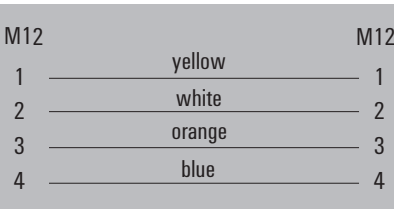
Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / M12

Plug / plug

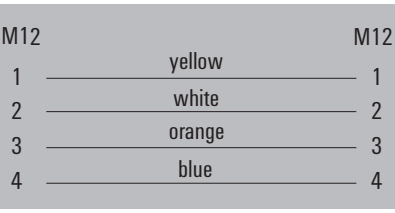




M12 / M12

Plug / socket





Technical data

Product type	System cable	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 straight pin	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 straight socket
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter, max.	7.55 mm	7.55 mm
Material sheath	Radox GKW S	Radox GKW S
Sheathing colour	black	black
Insulation cross-section	1.95 mm	1.95 mm
Min. bending radius, repetitive	6 *diameter	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C	-40 °C...90 °C
Installation temperature	-25 °C...90 °C	-25 °C...90 °C
Storage temperature	-40 °C...90 °C	-40 °C...90 °C
Abrasion resistance	very good	very good
Halogen	halogen-free, according to IEC 60754-2	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3
Note		

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
1.5 m	IE-C5DB4RE0015MCSMCS-E	1	**1010850015**	IE-C5DB4RE0015MSSMCS-E	1	**1059340015**
3.0 m	IE-C5DB4RE0030MCSMCS-E	1	**1010850030**	IE-C5DB4RE0030MSSMCS-E	1	**1059340030**
5.0 m	IE-C5DB4RE0050MCSMCS-E	1	**1010850050**	IE-C5DB4RE0050MSSMCS-E	1	**1059340050**
10.0 m	IE-C5DB4RE0100MCSMCS-E	1	**1010850100**	IE-C5DB4RE0100MSSMCS-E	1	**1059340100**
Note						

Accessories

Tools	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
Sheathing strippers, For UTP and STP data cables						
Sheathing strippers						
For coaxial and round data cables						
Marking tags						
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**	TM-I 18 MC NE GE	320	**1718431687**
Note						

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note

Ordering data

	Type	Qty.	Order No.
1.5 m	IE-C5DB4RE0015MCSXXX-X	1	**1010840015**
3.0 m	IE-C5DB4RE0030MCSXXX-X	1	**1010840030**
5.0 m	IE-C5DB4RE0050MCSXXX-X	1	**1010840050**
10.0 m	IE-C5DB4RE0100MCSXXX-X	1	**1010840100**

Note

Accessories

Tools	Type	Qty.	Order No.
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Sheathing strippers			
For coaxial and round data cables	IE-CST	1	**9204350000**
Marking tags			
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**

Note

Assembled cable - railway cable M12

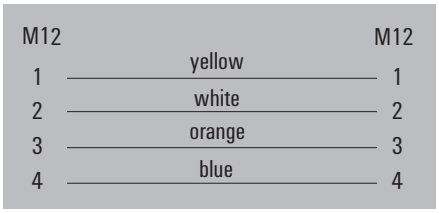
- Cat. 5
- Radox
- D-coded

M12 / M12

Plug / plug









Technical data

Product type	System cable	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 straight pin / M12 D-code – IP 67 angled pin	M12 D-code – IP 67 angled pin / M12 D-code – IP 67 angled pin
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter, max.	7.55 mm	7.55 mm
Material sheath	Radox GKW S	Radox GKW S
Sheathing colour	black	black
Insulation cross-section	1.95 mm	1.95 mm
Min. bending radius, repetitive	6 *diameter	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C	-40 °C...90 °C
Installation temperature	-25 °C...90 °C	-25 °C...90 °C
Storage temperature	-40 °C...90 °C	-40 °C...90 °C
Abrasion resistance	very good	very good
Halogen	halogen-free, according to IEC 60754-2	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note

Ordering data

	Type	Qty.	Order No.
1.5 m	IE-C5DB4RE0015MCSMCA-E	1	**1059940015**
3.0 m	IE-C5DB4RE0030MCSMCA-E	1	**1059940030**
5.0 m	IE-C5DB4RE0050MCSMCA-E	1	**1059940050**
10.0 m	IE-C5DB4RE0100MCSMCA-E	1	**1059940100**

	Type	Qty.	Order No.
	IE-C5DB4RE0015MCAMCA-E	1	**1059970015**
	IE-C5DB4RE0030MCAMCA-E	1	**1059970030**
	IE-C5DB4RE0050MCAMCA-E	1	**1059970050**
	IE-C5DB4RE0100MCAMCA-E	1	**1059970100**

Note

Accessories

Marking tags	Type	Qty.	Order No.
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**
Transparent sleeves. 12-mm length	TM 4/12 HF/HB	500	**1719840000**
Transparent sleeves. 18-mm length	TM 4/18 HF/HB	500	**1719850000**

Type	Qty.	Order No.
TM-I 12 MC NE GE	320	**1718411687**
TM-I 18 MC NE GE	320	**1718431687**
TM 4/12 HF/HB	500	**1719840000**
TM 4/18 HF/HB	500	**1719850000**

Note

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -





Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 D-code – IP 67 angled pin / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note

Ordering data

	Type	Qty.	Order No.
1.5 m	IE-C5DB4RE0015MCAXXX-X	1	**1059900015**
3.0 m	IE-C5DB4RE0030MCAXXX-X	1	**1059900030**
5.0 m	IE-C5DB4RE0050MCAXXX-X	1	**1059900050**
10.0 m	IE-C5DB4RE0100MCAXXX-X	1	**1059900100**

Note

Accessories

Marking tags	Type	Qty.	Order No.
Insertion label. yellow. 12 mm	TM-I 12 MC NE GE	320	**1718411687**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**
Transparent sleeves. 12-mm length	TM 4/12 HF/HB	500	**1719840000**
Transparent sleeves. 18-mm length	TM 4/18 HF/HB	500	**1719850000**

Note

M

M12 screw connection
with shield connection
D-coded

Industrial Ethernet

SAISM / SAIBM

Straight



SAISW

Angled



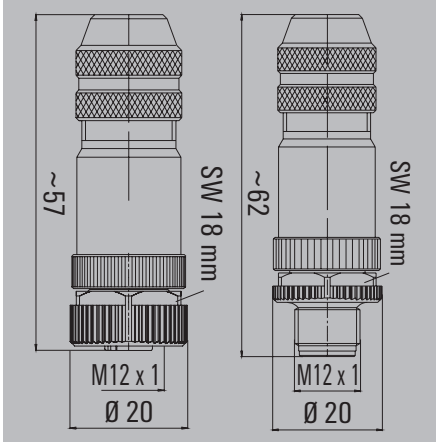
Ordering data

Male					
	4-pole. PG 9	SAISM-4/8S-M12-4P D-COD	1	**1892120000**	SAISW-4/8S-M12-4P D-COD	1	**1160550000**
Female							
	4-pole. PG 9	SAIBM-4/8S-M12-4P D-COD	1	**1892130000**			
Note							

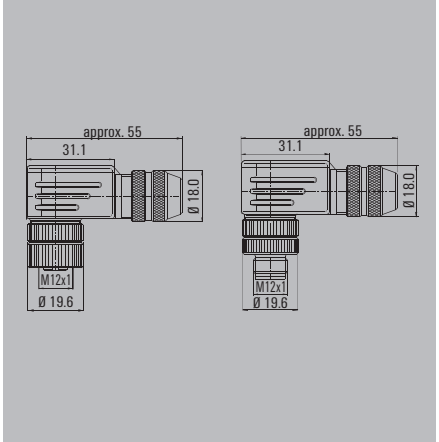
Technical data

Type of connection	Screw connection	Screw connection
Housing main material	CuZn	CuZn
Connection thread	M12	M12
Cable diameter	6...8 mm (PG9)	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm²	0.14...0.75 mm²
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	-40 ... +85 ° C
Protection degree	IP67	IP67
Contact surface	Gold-plated	Gold-plated
Note		

Dimensioned drawing



Dimensioned drawing



M12 tension-clamp connection, stainless steel with shield connection
D-coded

SAIS / SAIB VA

Industrial Ethernet



Ordering data

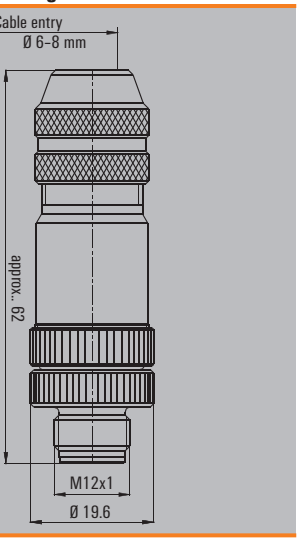
Male
D-coded, 5-pole, PG 9
Note

Type	Qty.	Order No.
SAIS 5/9-VA D-COD	1	1920700001

Technical data

Type of connection	Tension-clamp connection
Housing main material	1.4404/316L
Connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 ° C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD / D-COD)

Dimensioned drawing



M

M12 crimp connection
with shield connection
D-coded

Industrial Ethernet

SAISC / SAISWC



SAIM



Ordering data

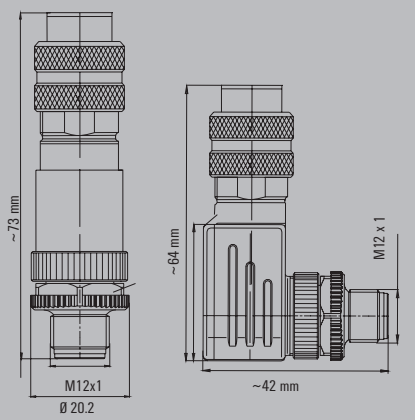
Male	Type	Qty.	Order No.
4-pole, straight	SAISC-M-4/8S-M12-D-COD	1	**1467840000**
4-pole, angled	SAISWC-M-4/8S-M12-D-COD	1	**1467850000**
Note	Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000		

Type	Qty.	Order No.
SAI-M12-KSC-0.34/0.5	100	**1468860000**

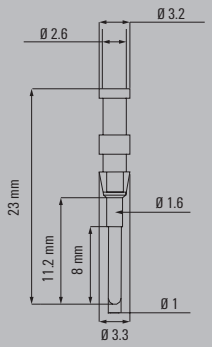
Technical data

Type of connection	Crimp connection	Crimp connection
Housing main material	CuZn	
Connection thread	M12	
Cable diameter	5...8 mm	
Wire cross-section, min. / max.	0.34...0.5 mm²	
Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-40 ... +85 ° C	
Protection degree	IP67	
Contact surface	Gold-plated	Gold-plated
Note	Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000	

Dimensioned drawing

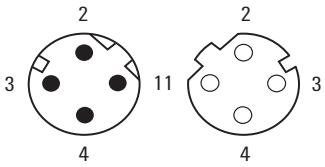


Dimensioned drawing



Industrial Ethernet

M12 crimp connection
D-coded



SAISC



Ordering data

Ethernet cables	
	male
	female
	male
	female
	male
	female
PROFINET cables	
	male
	female
Note	

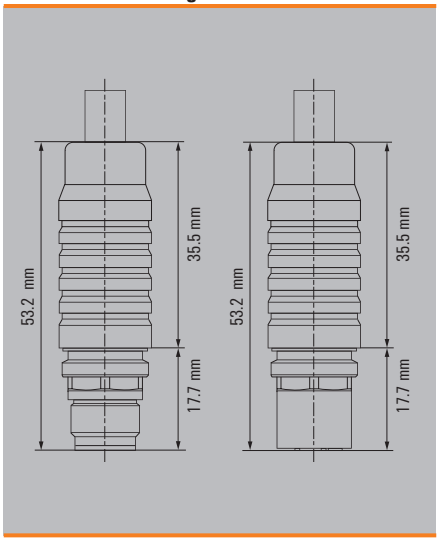
Type	Qty.	Order No.
SAISC-D-RR-6.6-C5	1	**1380560000**
SAIBC-D-RR-6.6-C5	1	**1380570000**
SAISC-D-RR-7.3-C5	1	**1380540000**
SAIBC-D-RR-7.3-C5	1	**1380550000**
SAISC-D-RR-8.3-C5	1	**1380580000**
SAIBC-D-RR-8.3-C5	1	**1380590000**
SAISC-D-PN-6.5-C5	1	**1380610000**
SAIBC-D-PN-6.5-C5	1	**1380620000**

Female Order No.	Pin Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380550000	1380540000	D	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D	Radox Railcat CAT5 4 x 0.5 mm² XCS 8.3 mm	12585489
1380620000	1380610000	D	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Technical data

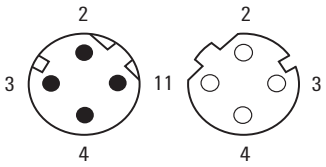
Cable glands	M 12
Coding	D
Protection degree	IP67
Number of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	
Cable diameter, max.	6.5 mm
Temperature range of housing	-40 ... +85 ° C
Plugging cycles	≥ 200
Note	

Dimensioned drawing



M

M12 crimp connection
Panel feed-through
D-coded



SAIBC



Ordering data

Ethernet cables	
	female
	female
	female
PROFINET cables	
	female
Note	

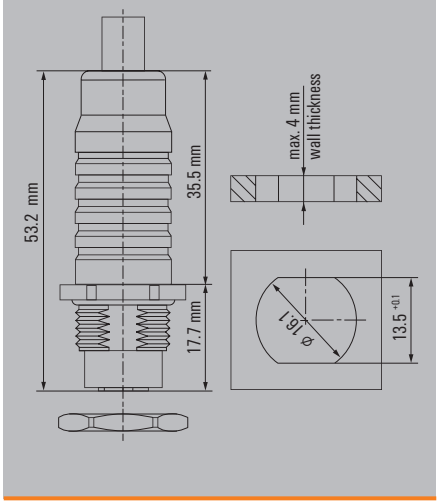
Type	Qty.	Order No.
SAIBC-WDF-D-RR-6.6-C5	1	**1380640000**
SAIBC-WDF-D-RR-7.3-C5	1	**1380630000**
SAIBC-WDF-D-RR-8.3-C5	1	**1380650000**
SAIBC-WDF-D-PN-6.5-C5	1	**1380670000**

Female Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D	Radox Railcat Databus CAT5, 7.3 mm	12568935
1380640000	D	Radox Railcat, CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D	Radox Railcat CAT5 4 x 0.5 mm² XCS 8.3 mm	12585489
1380670000	D	PROFINET, 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Technical data

Cable glands	M 16
Coding	D
Protection degree	IP67
Number of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	0.34...0.5 mm²
Cable diameter, max.	
Temperature range of housing	-40 ... +85 ° C
Plugging cycles	≥ 200
Note	

Dimensioned drawing



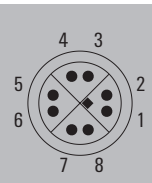
M12 connector / PCB socket
M12 X-type cat. 6_A

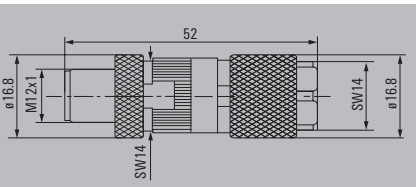
Plug

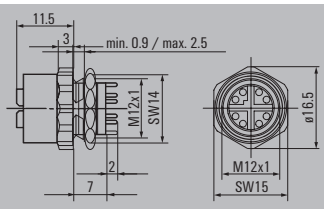


PCB socket









Technical data

Category	Cat.6_A / Class E_A (ISO/IEC 11801 2010)	Cat.6_A / Class E_A (ISO/IEC 11801 2010)
Protection degree	IP67	IP67, when screwed in
Connection 1	M12 / Insulation displacement technology	M12 / Solder connection
Housing main material	Zinc diecast	CuZn
Contact holder materials	PA	
Connection thread	M12	M12
Contact material / Contact surface	Brass / Gold-plated	CuZn / Gold over nickel
Ambient temperature (operational)	Ambient temperature (operational)-40 / 85 °C	Ambient temperature (operational)-40 / 85 °C
Connector standard	IEC 61076-2-109	IEC 61076-2-109
Current-carrying capacity at 50 °C	0.5 A @ 40 °C	0.5 A @ 40 °C
Rated voltage	48 V	48 V
Insulation strength	100 MΩ	100 MΩ
Plugging cycles	≥ 100	≥ 100
Configuration		Reflow compatible
Shielding	360° all-round enclosure	360° all-round enclosure
Connection diameter, flexible, min. / max.	0.48 / 0.76 mm	
Wire cross-section, finely stranded, min. (AWG)	AWG 26/7 / AWG 22/7	
Connection diameter, solid, min. / max.	0.41 / 0.64 mm	
Wire cross-section, solid, min. (AWG)	AWG 26/1 / AWG 22/1	
Insulation cross-section, max.	1.6 mm	
Sheath diameter, min. / Sheath diameter, max.	5 / 9.7 mm	
Note		

Ordering data

	Type	Qty.	Order No.
Plugs	IE-PS-M12X-P-FH	10	**1324020000**
2-part version			
pre-assembled			
Note			

Type	Qty.	Order No.
IE-PCB2-M12X-S-180	10	**1393080000**
IE-PCB-M12X-S-180	10	**1324010000**

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Note		

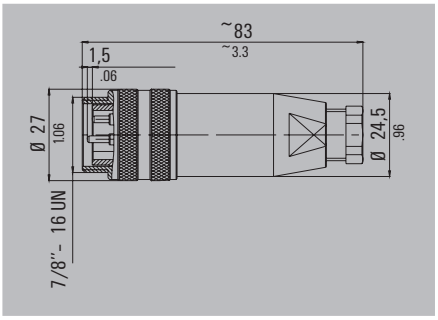
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FOUNDATION Fieldbus - connector (7/8")

Plug-in connector FBCon 7/8"

Plug-in connector straight (plug)



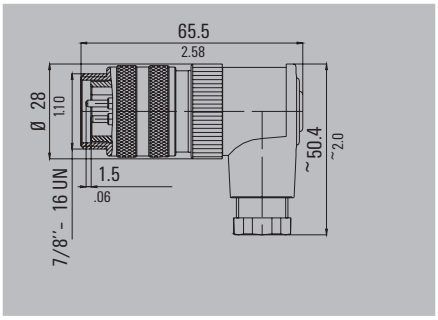


Ordering data

Type	Qty.	4-pole Order No.
SAIS-4/9-7/8"	1	1808840000

Plug-in connector 90° (plug)



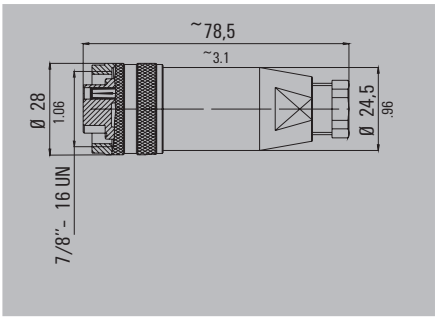


Ordering data

Type	Qty.	4-pole Order No.
SAISW-4/9-7/8"	1	1808830000

Plug-in connector straight (socket)





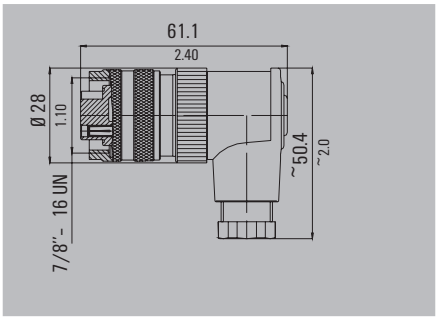
Ordering data

Type	Qty.	4-pole Order No.
SAIB-4/9-7/8"	1	1812480000

Note: refer also to chapter 7/8"

Plug-in connector 90° (socket)





Ordering data

Type	Qty.	4-pole Order No.
SAIBW-4/9-7/8"	1	1812470000

Technical data

No. of poles	4
Lock	Screw 7/8" UNF
Cable gland	PG 9
Connection	Screw
Connection cross-section	max. 1,5 mm²
Connection cross-section	16 AWG
Enclosure protection class	IP 67
Mechanical service life	> 500 plugging cycles
Upper limit temperature	+ 85 °C
Lower limit temperature	- 40 °C

Electrical data	
Rated voltage	250 V
Rated surge voltage	4000 V
Polution severity	3
Surge category	II
Insulation material group	III
Test surge voltage	4800 V
Rated current	9 A (40°)
Volume resistivity	≤ 5 mΩ
Insulation resistance	> 10^{10}Ω

Materials		
Contact pins	CuZn	(brass)
Contact surface	Au	(gold)
Socket body	PUR/PA	(UL 94 HB)
Enclosure cable plug	PBT	(UL 94 V-0)
Threaded ring	Anodised aluminium	

Accessories for fieldbus distributors

For technical data, consult Catalogue 5 – Cable boxes and feedthroughs

Cable glands – plastic – IP68

VG M16-1/K68



Ordering data

Type	Qty.	Order No.
VG M16-1/K68	50	**1909860000**
Long-thread version on request, halogen-free without sealing ring		

Cable glands – brass – IP68

VG M16-1/MS68



Ordering data

Type	Qty.	Order No.
VG M16-1/MS68	50	**1909910000**
Long-thread version on request VDE for metric version		

Cable glands – brass – 1/EMV

VG M16 - MS 1/EMV



Ordering data

Type	Qty.	Order No.
VG M16 - MS 1/EMV	50	**1909500000**
Further versions on request		

Sealing rings – 9005

GWDR M16-NP



Ordering data

Type	Qty.	Order No.
GWDR M16-NP	50	**1736230000**
Further versions on request		

Blanking plugs – brass

VP M16-MS65



Ordering data

Type	Qty.	Order No.
VP M16-MS65	100	**1777730000**
Other versions available on request. The blanking plugs must be tightened "hand-tight" with the screwdriver.		

Blanking plugs – plastic – EEx e

VP M16-EXE SW



Ordering data

Type	Qty.	Order No.
VP M16-EXE SW	100	**1737070000**
Refer to the enclosed installation instructions for the tightening torque.		

Compensating elements – plastic – DAE

DAE M12 PA short



Ordering data

Type	Qty.	Order No.
DAE M12 PA SHORT	10	**1868560000**
Light grey version - RAL 7035 - on request		

Tools and markers

Tools and markers	Introduction	N.2
	Screwty®	N.4
	Cutting tools	N.7
	Sheathing and insulation stripping tools	N.8
	Stripping and cutting tools	N.9
	Crimping tools	N.12
	Identification systems	N.16

SAI tools

The Screwty® is a state-of-the-art tool that features a unique, patented retention method. The adjustable torque ensures that the connectors have actually been sealed tightly. The Screwty® attachment for M23 is also very important because the sealing method for the M8 and M12 connectors are comparable to the M23.

The fact that the Screwty® attachment slips back is a major advantage of this system. This means that it does not have to be re-applied, as would be the case when using an open ended wrench. There is also no risk that the screw can loosen when you turn the tool the wrong way since the Screwty® is only capable of exerting force in one direction.

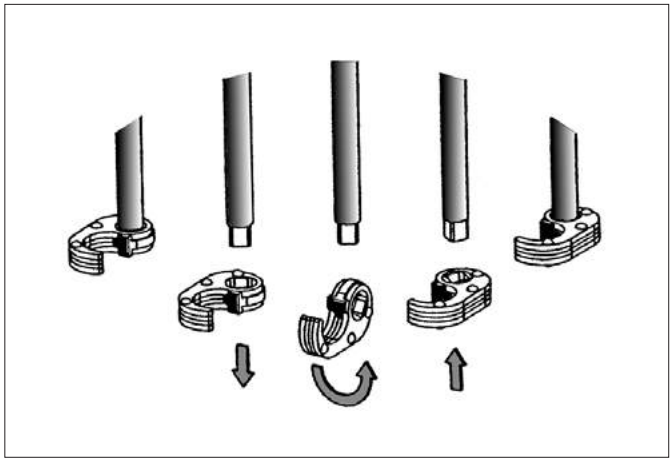
It is also possible to put other tool attachments on the 1/4"-drive. This allows the use of torque spanner wrenches or torque screwdrivers. This is also available without torque for those who cannot fit a torque tool into their budgets.



The Screwty® can also be used to screw on M23 connectors.



The tool does not have to be re-applied. During the follow-up it simply slips back.



You can change the function from closed to open by simply turning it around.



The Screwty® can also be purchased as a set with other suitable attachments.



Screwty® torque

- Screw-on circular plug, safety sealed
- Easier work



Cutting tools

- Cutting shape for various cable sizes
- Cutting without deformation of the conductor



Sheathing and insulation stripping tools

- No need to adjust cutting depth
- No damage to inner conductors



Stripping and cutting tool

- Special, self adjusting stripping blades do not damage the conductor



Screwty®
Bolting tools



Cutting tools



Sheathing and insulation stripping tools



Stripping and cutting tools



SAI M23 crimping tool

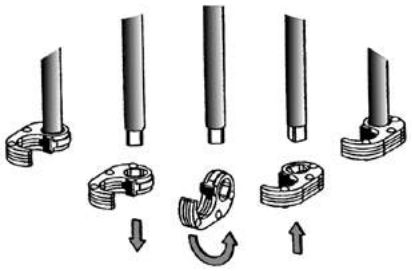


Identification systems

N

Screwty® for M8/M12/M23





Simply turn the ratchet to tighten or loosen the cable gland.

The Torque Screwty®
- Easier work
- Screw on circular plug, safety sealed

The perfect tool for all situations

Screwty® is the ideal, universal tool for tightening and releasing cable glands on all common sensor and actuator cables. The Screwty® can also reach those round plugs normally considered inaccessible! No great force is required, simply turn the tool to tighten or release the plug in connector as required.
The Screwty® also fits the majority (more than 90 %) of the cables and plug-in connectors of other suppliers and is therefore a unique tool that is useful worldwide. The Screwty® consists of a handle with a conventional 1/4" fitting. This means it can be used for all sizes: for M12 and M8 round plugs, and the M12F and M8F types, as well as for plugs and sockets on custom cables.
The Screwty® is suitable for the following round plugs:

Size	M8	M8F	M12	M12F	M23
	10 ±0.3 mm	11.9 ±0.3 mm	14.5 ±0.3 mm	19.8 ±0.3 mm	26.2 ±0,3 mm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1

An adjustable torque fitting is also available for the Screwty®, for guaranteeing extra reliability during installation.
The torque can be infinitely adjusted between 0.5 and 1.7 Nm. This accurate setting enables all round plugs to be tightened precisely with a pre-set torque.

Weidmüller specifies the following torques for its round plugs:

Size	M8	M8F	M12	M12F	M23
Torque	0.5-0.6 Nm	0.5-0.6 Nm	0.8-1.2 Nm	0.8-1.2 Nm	2-2.5 Nm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1

The Screwty® can also be fitted with other blades to create a torque screwdriver. You can find these blades in our catalogue "Tools".



Use of an M12 Screwty®

1. Position Screwty®,
2. tighten connector,
3. finished!



Use of an M23 Screwty®

Screwty® standard



Ordering data

Type	Use	Qty.	Order No.
Screwty® M12	moulded M12 lines	1	1900000000
Screwty® M8	moulded M8 lines	1	1900010000
Screwty® M12 F	M12 plugs for custom assembly	1	1900020000
Screwty® M8 F	M8 plugs for custom assembly	1	1900030000

Screwty® Set



Ordering data

Type		Qty.	Order No.
Screwty® Set		1	1910000000
Fitting			
Type	**Content**		
Screwty® Set	1x Screwty® standard handle + 1 M12, M8, M12 F, M8 F attachments		

Screwty® attachments



Screwty® M8 attachment | **Screwty® M8 F attachment** | **Screwty® M12 attachment** | **Screwty® M12 F attachment** | **Screwty® M23 attachment**

Ordernig data

Type	Qty.	Order No.
Screwty® M12 KO o. SD	1	1900100000
Screwty® M8 KO o. SD	1	1900110000
Screwty® M12F KO o. SD	1	1900120000
Screwty® M8F KO o. SD	1	1900130000
Screwty® M23	1	1981560000

Legend:	
F	for custom assemblies
DM	torque
KO o. SD	ratchet only (attachment)
Screwty®	screwdriver
Screwty® DM	torque screwdriver, interchangeable blade
WK	interchangeable blade
LS	power plug

Screwty® interchangeable handle/interchangeable bit / Hexagonal



Ordering data

Type	Qty.	Order No.
1/4" handle	1	4294820000
WK-1/4" (Screwty®)	1	1862200000
SCREWTY SW9	1	1254630000
SCREWTY SW10	1	1254640000
SCREWTY SW12	1	2598970000
SCREWTY SW13	1	1254650000
SCREWTY SW15	1	1290830000
SCREWTY SW17	1	1254660000
SCREWTY SW18	1	1254670000
SCREWTY SW19	1	1254680000

Screwty® with torque fitting

Setting aid for Screwty® with torque fitting (included)



Ordering data

Type	Use	Qty.	Order No.
Screwty®-M12-DM	moulded M12 lines with torque requirement	1	1900001000
Screwty®-M8-DM	moulded M8 lines with torque requirement	1	1900011000
Screwty®-M12 F-DM	M12 plugs, custom assembly with torque requirement	1	1900021000
Screwty®-M8 F-DM	M8 plugs, custom assembly with torque requirement	1	1900031000

Fitting	
Type	**Content**
Screwty®-M12-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 attachment
Screwty®-M8-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 attachment
Screwty®-M12 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 F attachment
Screwty®-M8 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 F attachment

Screwty® Set-DM



Ordering data

Type		Qty.	Order No.
Screwty® Set-DM		1	1920000000
Fitting			
Type	**Content**		
Screwty® Set-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 each of Screwty® M12, M8, M12 F, M8 F attachments		

SAI tool boxes

SAI-Screwty® Box



- Stripping of PVC and PUR sensor/actuator cables
- Tightening of M8 and M12 round connectors with adjustable torque setting

Accessories

Article description	Qty.
Stripping tool Stripper 6–16 for plastic-sheathed cables up to 10 mm outside diameter	1
Torque screwdriver DMS manual for 0.5–1.7 Nm	1
Screwty® attachment for plug-in connectors* M8	1
Screwty® attachment for plug-in connectors* M8F	1
Screwty® attachment for plug-in connectors* M12	1
Screwty® attachment for plug-in connectors* M12F	1
Carry case	1

*) Screwing attachment for M8/10 mm; M8F/11.9 mm; M12/14.5 mm; M12/19.8 mm;
F...male and female connectors for custom assembly .

Ordering data

Type	Order No.
SAI-SCREWTY BOX	1939180000

SAI-Screwty® Tool Box



- Screwing of M8 and M12 round connectors with adjustable torque setting
- Tightening of slot-head and cross-head screws (PZ and PH)

Accessories

Article description	Qty.
Torque screwdriver DMS manual for 0.5–1.7 Nm	1
Torque screwdriver DMS manual for 2.0–7.0 Nm	1
Inbus 2.5 / 3.0 / 4.0	1
Slot 0.5 x 3.0	1
Slot 0.8 x 4.0	1
Slot 0.6 x 3.5	1
Cross PH0	1
Cross PH1	1
Cross PH1	1
Torx® T8	1
Torx® T10	1
Torx® T20	1
Torx® T25	1
Screwty® attachment for plug-in connectors* M8	1
Screwty® attachment for plug-in connectors* M8F	1
Screwty® attachment for plug-in connectors* M12	1
Screwty® attachment for plug-in connectors* M12F	1
Carry case	1

*) Screwing attachment for M8/10 mm; M8F/11.9 mm; M12/14.5 mm; M12/19.8 mm;
F...male and female connectors for custom assembly .

Ordering data

Type	Order No.
SAI-SCREWTY TOOL BOX	1939170000

Cutting tools

- The cutting blade design for different cable sizes increases the quality of the cuts for smaller cross-sections
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor
- Do not cut live conductors
- Individually tested protective insulation, 1000V, VDE and GS tested in accordance with EN/IEC 60900
- Optimised handle ergonomics
- Minimal hand force required

KT 8



KT 12





⌀	max. 8 mm
●	max. 16 mm²
⁘	max. 16 mm²
⁘	max. 16 mm²

⌀	max. 12 mm
●	max. 16 mm²
⁘	max. 25 mm²
⁘	max. 35 mm²

Technical data

Max. cutting performance, copper cable	KT8	KT12
Copper cable - solid, max.	16 mm² / 6 AWG	16 mm² / 6 AWG
Copper cable - stranded, max.	16 mm² / 6 AWG	25 mm² / 3 AWG
Copper cable - flexible, max.	16 mm² / 6 AWG	35 mm² / 2 AWG
Copper cable, max. diameter	8 mm	12 mm
Max. cutting performance, aluminium cable		
Stranded aluminium cable, max (mm²)	16 mm² / 6 AWG	25 mm² / 6 AWG
Stranded aluminium cable, max. diameter	8 mm	8 mm
Single-core aluminium cable, max.(mm²)	16 mm²	25 mm²
Data / telephone / control cable		
Data / telephone / control cable, max. Ø	8 mm	12 mm
Tool data		
Depth / Width / Height	30 / 185 / 65.5 mm	30 / 225 / 63.5 mm
Weight	180 g	300 g
Note	Tool closed	Tool closed

Ordering data

Version	Type	Qty.	Order No.
	KT 8	1	9002650000
Note			

Type	Qty.	Order No.
KT 12	1	9002660000

N

Special sheathing and insulation stripping tools

- Quick and accurate stripping
- No need to adjust cutting depth
- No damage to inner conductors

Stripper 6-16



Stripper 6-16
The Stripper 6-16 insulation stripping tool is for removing the outer sheath of sensor cables. No damage to inner wires can occur because the blades have a specially ground surface. Adjusting the tool to different cross-sections is unnecessary. The visual scale of 15 to 20 mm enables quick and precise stripping of outer insulation.

AM 12

For UTP and STP data cables



- Cutting of UTP and STP data cables and other flexible copper cables with a diameter of up to 4 mm² (~AWG11)
- Stripping of the outer insulation of UTP and STP data cables and other round cables with Ø approx. 0.5 ... 12.5 mm
- No damage to the shielding or conductor due to adjustable stripping blade
- Length end stop for repeated cutting and stripping lengths

Technical data

Max. stripping performance	Stripper 6-16	AM 12
Cable type	suitable for PVC and PUR cables	UTP and STP data cables
Conductor diameter		0.5...12.5 mm
Cut depth		adjustable
Cutting performance		
UTP und STP data cables, max. diameter		8 mm
Copper cable - flexible, max.		4 mm²
Tool data		
Width	165 mm	97 mm
Height		46 mm
Weight	120 g	36 g
Note		

Ordering data

Version	Type	Qty.	Order No.
	STRIPPER 6-16 RED-LINE	1	**9203110000**
Note			

Type	Qty.	Order No.
AM 12	1	**9030060000**

Accessories

	Type	Qty.	Order No.
Note			

Type	Qty.	Order No.
Sheathing stripper		

Stripping and cutting tools

- For flexible and solid conductors
- Double-insulated cables in two process steps without special adjustment
- Automatic opening of clamping jaws after stripping
- No play in self-adjusting cutting unit
- Long service life
- No splaying of individual conductors
- Optimised ergonomic design
- Stripping length adjustable via end stop
- Adjustable to diverse insulation thicknesses
- Removable handle shells
- Fold-out cutting protection
- Personalised marking with ESG device marker
- Selectable two-stage partial stripping

stripax®

0.08...10 mm²



- Stripping: PVC-insulated flexible and solid conductors from 0.08...10 mm² (~AWG 28...7)
- Cutting: PVC-insulated flexible conductors, ranging from 0.08...6 mm² (~AWG 28...7)
- Processing of multi-conductors. Several thin flat ribbon cables can even be processed in one operation
- No damage to the conductors thanks to special, self-adjusting stripping blades

stripax®16

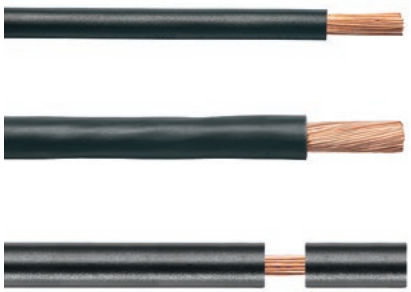
6...16 mm²



- Stripping: PVC-insulated flexible and solid conductors from 6...16 mm² (~AWG 10... 6)
- Cutting: PVC insulated flexible and solid conductors up to 6 mm² (AWG 10)
- No damage to the conductor thanks to specially shaped blade







Technical data

Max. stripping performance	STRIPAX	STRIPAX 16
Cable type	Flexible and solid conductors with PVC insulation	Flexible and solid conductors with PVC insulation
Wire cross-section, min. / max.	0.08...10 mm²	6...16 mm²
Stripping length, max.	25 mm	25 mm
Cutting performance		
Conductor cross-section (cutting capacity)	6 mm²	6 mm²
Tool data		
Width	190 mm	190 mm
Height	99 mm	99 mm
Weight	225 g	175 g
Note		

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	STRIPAX	1	9005000000	STRIPAX 16	1	9005610000
	STRIPAX ZERT	1	9017330000			
Note						

Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
Spare stripping blade	ERME 10² SPX 4	1	1119030000	ERME 16² SPX 4	1	1119040000
Spare clamping jaw	ERTE KLBC SPX 10	1	2571480000	ERTE KLBC SPX 16	1	2571490000
Note						

multi-stripax®

Multifunctional stripping tool for use on a multitude of conductor insulation forms and configurations – even those not covered by the standard

multi-stripax® the troubleshooter

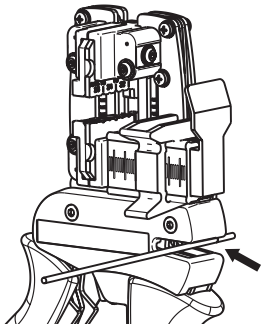
- Interchangeable stripping units
- Proper stripping of any conductor round, flat or special profiles, thanks to the specially shaped stripping blades
- Incorporates cutting function for up to 2.5 mm^2 solid and 6 mm^2 fine
- Fatigue free operation thanks to ergonomic design
- No damage to conductor or remaining insulation
- Best stripping results for industrial applications
- Stripping results reproduced accurately time and time again
- A long lasting, reliable tool thanks to its robust design
- Plus, the customary Weidmüller repair service

Special stripping units – the answer to diverse stripping tasks

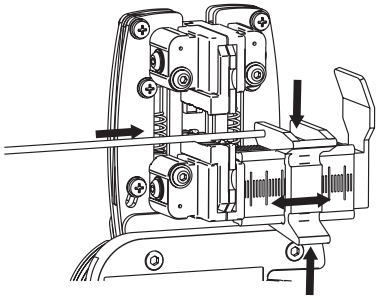
The multi-stripax® tool, distinguished by its robust design was developed, following customer feedback, to handle all the stripping tasks they have met with in practice.
Thanks to the interchangeable stripping units, a special solution can be found for every challenge in the marketplace.

The specially shaped stripping blades guarantee perfect stripping results. The guide plates ensure the correct positioning of the wire and therefore prevent damage to the remaining wire. The clamping jaws hold the conductor with just the right force during the stripping operation and are matched to the specific situation at hand. The flexibility of the multi-stripax® to affect the result of the stripping operations depending on the different variables it encounters makes it a universal troubleshooter.

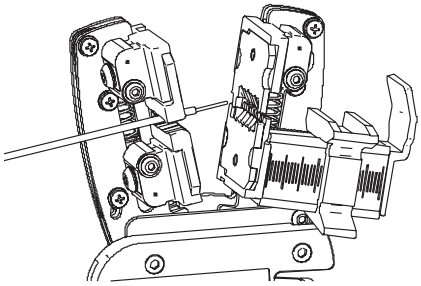
Cutting



Positioning



Stripping



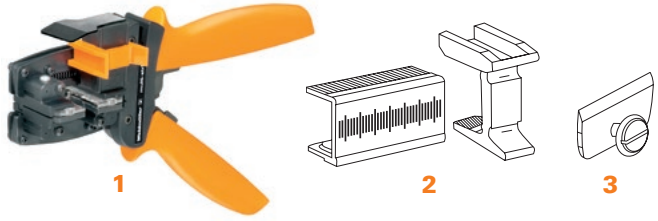
multi-stripax®



Technical data

Cable type	PVC, Teflon, PTE, PUR, silicone, halogen free
Conductor cross-section, min.	2 mm
Conductor cross-section, max.	no limit (in several steps)
max. cutting capacity, fine-strand	6 mm^2
max. cutting capacity, solid	2,5 mm^2
max. cutting capacity, ribbon	10,2 x 4 mm
Depth/Width/Height	250 / 85 / 40 mm
Weight	250 g
Note	

multi-stripax® incl. stripping unit



- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations
- Adjustable stop for setting stripping lengths from 2.3 to 30 mm
- Highly flexible thanks to interchangeable stripping units
- Stripping results reproduced accurately time and time again
- No damage to the conductor or insulation
- A long lasting, reliable tool thanks to its robust design
- Integral cutting function for max. 2.5 mm² solid or 6 mm² flexible cables

Ordering data

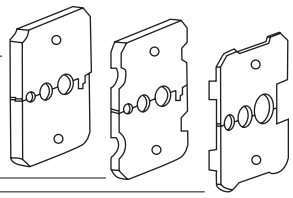
Illustration	Type	Qty.	Order No.	Features
1	multi-stripax® 6-16	1	9202210000	PVC-insulated cables; Cable cross-section 6 up to 16 mm²; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm² 2. station solid, stranded and flexible 10 mm² 3. station solid, stranded and flexible 16 mm² double stranded (flexible) Cutting function up to 6 mm²
1	multi-stripax® ASI	1	9202250000	ASI Bus cables 2 x 1.5 mm² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable Cutting function up to 6 mm²
1	multi-stripax® GKW LW	1	9205760000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm² max. stripping lengths depends on cable design / cable type Cutting function up to 6 mm²
2	ERAN multi-stripax®	1	9203100000	Length stop
3	ERME multi-stripax®	1	9203070000	Cutting knife

Note

Stripping units for multi-stripax®

Stripping unit consists of:

Clamping jaws
Short symbol KLBC SPX SP
Insulation stripping tool
Short symbol AIME SPX SP
Guide plate
Short symbol FUEPL SPX SP



- Highly flexible thanks to interchangeable stripping units
- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations

e = solid
m = stranded
f = finely stranded

Ordering data

Type	Qty.	Order No.	Features
AIE multi-stripax® 6-16	1	9202260000	PVC-insulated cables; Cable cross-section 6 up to 16 mm²; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm² 2. station solid, stranded and flexible 10 mm² 3. station solid, stranded and flexible 16 mm² double stranded (flexible)
AIE multi-stripax® ASI	1	9202300000	ASI Bus cables 2 x 1.5 mm² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable
AIE multi-stripax® GKW LW	1	9205770000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm² max. stripping lengths depends on cable design / cable type

Crimping tool for M12 cable connector

SAI-TMCDC







Ordering data

	Type	Qty.	Order No.
Hand crimping tool	SAI-TMCDC	1	1381710000

Note

Accessories

Crimping die for hand crimping tools	Type	Qty.	Order No.
For crimp flange PROFINET (D-code), ø 6.5 mm	SAI-CEH075	1	1381760000
For crimp flange Ethernet (D-code), cable RAILCAT ø 6.6 mm	SAI-CEH080	1	1381730000
For crimp flange Ethernet (D-code), cable RAILCAT ø 7.3 mm	SAI-CEH090	1	1381740000
For crimp flange Ethernet (D-code), cable RAILCAT ø 8.3 mm	SAI-CEH095	1	1381750000
DUO crimping die for hand crimping tools			
For M12 contact and crimping sleeve PROFINET (D-code), Cable PROFINET ø 6.5 mm	SAI-CEH-M12D-KCR075	1	1381770000

Note

Crimping tool for turned contacts (M12 cable connector)

M12 MIL hand crimping tools (TMCGK)

For crimping turned contacts AWG 12 - AWG 26



Ordering data

Type	Qty.	Order No.
SAI-TMCGK	1	1381670000

Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCGK



Ordering data

Type	Qty.	Order No.
SAI-TMC - P4	1	1381680000

Mounting tool for M12 cable connector

Mounting tool for Industrial Ethernet cable shielded bushing



Ordering data

Type	Qty.	Order No.
SAI-MDC12D	1	1381830000

M12 MIL hand crimping tools (TMCSK)

For crimping turned contacts AWG 20 - AWG 32



Ordering data

Type	Qty.	Order No.
SAI-TMCSK	1	1381690000

Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCSK



Ordering data

Type	Qty.	Order No.
SAI-TMC - PD	1	1381700000

This tool is suitable for M23 signal connectors and power connectors.



SAI M23 crimping tool 1

Technical data

Crimp contact	Wire cross-section (mm²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male, 1mm	0.08 0.14 0.25 0.34 0.56	0.78 0.81 0.83 0.88 0.97	11	**1170140000**
Crimp male, 1mm	0.75 1.00 1.50	0.75 1.00 1.50	11	**1170170000**
Crimp female, 1 mm	0.75 1.00 1.50	0.75 1.00 1.50	12	**1170210000**
Crimp male, signal 1 mm	0.14 0.25 0.34 0.50 0.75 1.00	0.75 0.82 0.90 1.00 1.08 1.20	11	**1170150000**
Crimp female, signal 1 mm (0.08-0.56 mm²)	0.14 0.25 0.35 0.50	0.75 0.80 0.87 0.97	12	**1995860000**
Crimp female, signal 1 mm (0.34-1.00 mm²)	0.50 0.75 1.00	0.95 4.00 1.05	12	**1170180000**
Crimp male, signal 1.5 mm	0.14 0.25 0.35 0.50 0.75 1.00	0.75 0.82 0.90 0.96 1.03 1.00	3	**1170220000**
Crimp female, signal 1.5 mm	0.14 0.25 0.35 0.50	0.75 0.80 0.87 0.97	4	**1170230000**
Crimp female, signal 1.5 mm (0.34-1.00 mm²)	0.50 0.75 1.00	0.95 1.00 1.05	4	**1170240000**
Crimp male, signal 2 mm	0.75 1.00 1.50 2.50	1.30 1.40 1.55 1.75	5	**1170250000**
Crimp female, signal 2 mm	0.75 1.00 1.50 2.50	1.30 1.40 1.55 1.75	6	**1170260000**
Crimp male, power 1 mm	0.14 0.25 0.35 0.50 0.75 1.00	0.75 0.80 0.85 1.03 1.08 1.13	1	**1170390000**
Crimp female, power 1 mm	0.14 0.25 0.35 0.50 0.75 1.00	0.75 0.80 0.85 0.89 0.95 1.02	2	**1995830000**
Crimp male, power 2 mm	0.75 1.00 1.50 2.50	1.20 1.40 1.55 1.70	7	**1170400000**
Crimp male, power 2 mm	2.50 4.00	1.47 1.60	7	**1170410000**
Crimp female, power 2 mm	0.75 1.00 1.50 2.50	1.20 1.40 1.55 1.70	8	**1995820000**
Crimp female, power 2 mm	2.50 4.00	1.47 1.60	8	**1170420000**

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 1	**1203840000**

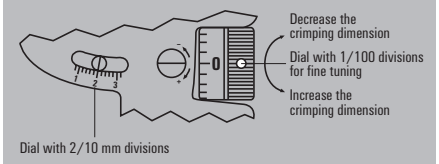
Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.

The adjusting dial is used to prepare the infeed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory.

The actual crimping size should still be checked periodically.

It should be checked using the plug gauge (Ø 2.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 2.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 2.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

This tool is only suitable for M23 signal connectors.

Operation mode

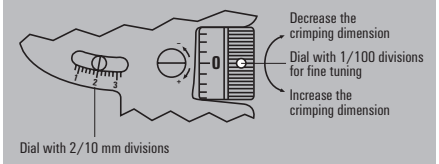
The following table specifies the locator positions and the crimping dimensions for various crimping contacts. The contact is inserted through the tool into the locator; this ensures the proper crimping position. The inserted contact is secured by closing gently (approximately to first snap-close level). Now the cable can be easily inserted and it is not possible for the contact to fall out. The tool must be pressed together until it reaches the end stop position in order to function properly. It is then able to open automatically which brings the crimping process to a close in the intended manner.

Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.
The adjusting dial is used to prepare the infeed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory. The actual crimping size should still be checked periodically. It should be checked using the plug gauge (Ø 1.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 1.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 1.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

SAI M23 crimping tool 2



Technical data

Crimp contact	Wire cross-section (mm²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male1 mm	0.08	0.72	1	**1170140000**
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
	0.56	0.90		
Crimp male 1 mm	0.75	0.80	1	**1170170000**
	1.00	0.86		
	1.50	0.95		
Crimp female 1 mm	0.75	0.80	2	**1170210000**
	1.00	0.86		
	1.50	0.95		
Crimp male 1 mm	0.14	0.86	1	**1170150000**
	0.25	0.90		
	0.34	0.95		
	0.56	0.98		
	0.75	1.03		
	1.00	1.08		
Crimp female 1 mm (0.08-0.56 mm²)	0.08	0.75	2	**1995860000**
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
	0.56	0.90		
Crimp female 1 mm (0.34-1.00 mm²)	0.34	0.77	2	**1170180000**
	0.56	0.82		
	0.75	0.88		
	1.00	0.95		
Crimp male 1.5 mm	0.14	0.65	3	**1170220000**
	0.25	0.68		
	0.34	0.72		
	0.56	0.81		
	0.75	0.95		
	1.00	1.07		
Crimp female 1.5 mm (0.14-0.75 mm²)	0.14	0.70	2	**1170230000**
	0.25	0.73		
	0.34	0.77		
	0.56	0.85		
	0.75	1.05		
Crimp female 1.5 mm (0.34-1.00 mm²)	0.34	0.88	2	**1170240000**
	0.56	0.95		
	0.75	1.05		
	1.00	1.13		
Crimp male 2.0 mm	0.75	1.20	4	**1170250000**
	1.00	1.35		
	1.50	1.45		
	2.50	1.60		
Crimp female 2.0 mm	0.75	1.25	5	**1170260000**
	1.00	1.35		
	1.50	1.45		
	2.50	1.60		

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 2	**1203960000**

SFC – SlimFix Clip MultiCard

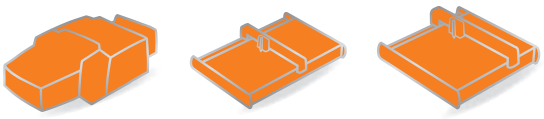
A convenient clip system for wires and cables

Highly durable markers with extra security

The halogen-free SlimFix Clips are made from sturdy polyamide 66 and combine two advantages in one product. Their unique clip closure means they can be fitted at every stage in the installation as easily as an open marker while still offering you the application-based security of a closed marker.
The markers are designed for wire and cable diameters from 1.5 to 7.0 mm, have labelling surfaces up to 30 mm long to give you enough space for extensive character strings which are easily legible and can be printed onto the differently coloured markers using the PrintJet ADVANCED printer.

SlimFix Clip SFC – the benefits to you

- Compact: secure and quick fitting without additional tools
- Informative: large labelling surface for long character strings
- Strong combinations: different colours and sizes
- Individual: can be printed using PrintJet ADVANCED



PrintJet ADVANCED | Plotter MCP Plus 2 | Plotter MCP Basic 2



The SFC is fitted quickly and simply using its clip closure system – no need for additional tools.



Optimal cross-sectional range in all sizes: SFC-type markers in 5 sizes for wire diameters from 1.5 to 7.0 mm.

Halogen Free

N

Technical data

Material	Polyamide 66, halogen-free
UL 94 flammability rating	V2
Temperature range	–40 °C to 100 °C

Ordering data

Colour	International colour code colours, not contained in the range, are available on request.
Special printing	Specify special printing and colours per using the M-Print® PRO software.
Printing	Black or colour
Possible printing systems	PrintJet ADVANCED, PrintJet PRO, MCP Plus 2, MCP Basic 2
Minimum order quantity	1 pack = 5 cards

Selection table

Type	Wire, ext. ø	Wire cross-section
SFC 0	1.5 - 2.5 mm	0.5 - 1.0 mm²
SFC 1	2.0 - 3.5 mm	0.75 - 2.5 mm²
SFC 2	3.0 - 5.0 mm	2.5 - 4.0 mm²
SFC 2.5	4.0 - 6.0 mm	4.0 - 10 mm²
SFC 3	3.5 - 7.0 mm	4.0 - 10 mm²

SlimFix SFC

Technical data

Material	Temperature range	Fire class acc. to UL 94	Halogen
Polyamide 66	-40 °C...100 °C	V-2	No

Ordering data

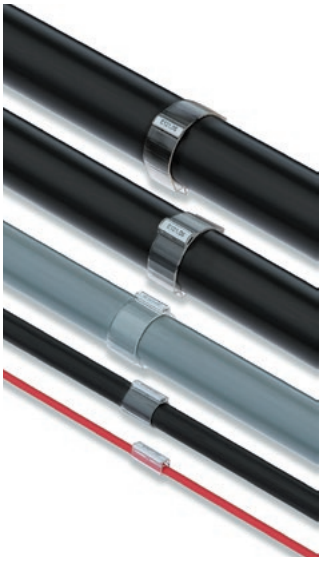
Type	Printing area	Length	Qty.	White Order No.	Yellow Order No.	Blue Order No.	Red Order No.	CSP Order No.
SFC 0/12	12x4.1 mm	12 mm	200	1813130000	1813160000	1813170000	1813150000	1813180000
SFC 0/21	21x4.1 mm	21 mm	200	1813190000	1813210000	1813220000	1813200000	1813230000
SFC 0/30	30x4.1 mm	30 mm	150	1813240000	1813260000	1813270000	1813250000	1813280000
SFC 1/12	12x4.1 mm	12 mm	200	1747320001	1747320004	1747320002	1747320003	1752720000
SFC 1/21	21x4.1 mm	21 mm	200	1779080001	1779080004	1779080002	1779080003	1779090000
SFC 1/30	30x4.1 mm	30 mm	150	1805760000	1805730000	1805720000	1805740000	1805750000
SFC 2.5/12	12x5.8 mm	12 mm	120	1062000000	1062010000	1062030000	1062020000	1062040000
SFC 2.5/21	21x5.8 mm	21 mm	120	1062050000	1062070000	1062090000	1062080000	1062110000
SFC 2/12	12x5.8 mm	12 mm	120	1758320001	1758320004	1758320002	1758320003	1763480000
SFC 2/21	21x5.8 mm	21 mm	120	1805810000	1805780000	1805770000	1805790000	1805800000
SFC 2/30	30x5.8 mm	30 mm	90	1805870000	1805830000	1805820000	1805850000	1805860000
SFC 3/12	12x5 mm	12 mm	80	1025220000	1025230000	1025250000	1025240000	1025550000
SFC 3/21	21x5 mm	21 mm	80	1025260000	1025270000	1025300000	1025290000	1025560000
SFC 3/30	30x5 mm	30 mm	60	1025310000	1025320000	1025340000	1025330000	1025570000

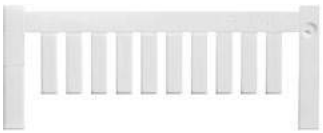


Marker tags for sensor cables

Sleeves for marking sensor cables

Unique marking and identification of sensor/actuator cables can be achieved with a marker tag. Each cable has a sleeve that accepts a marker tag TM-I 18. Cables open at one end have one sleeve, connecting cables have two marker sleeves. The TM-I 18 is available in various colours.





Ordering data

Type	Colour	Order No.
Sleeve		
TM 203/18 VO	transparent	**1798480000**
TM 4/18 HF/HB	transparent	**1719850000**
Marker		
TM-I 18 NEUTRAL WS	white	**1718431044**
TM-I 18 NEUTRAL GE	yellow	**1718431687**

The advanced inkjet printer
Our PrintJet ADVANCED for exacting standards

Flexible printing of plastic and metal markers

The PrintJet ADVANCED is an inkjet printer which prints plastic markers in MultiCard format and metal markers from the MetalliCard family. Thanks to its high magazine capacity, it is ideal for printing large volumes in continuous operation. The precise colour printing and thermal fixing guarantee optimum print results for durable equipment identification. With these properties, the PrintJet ADVANCED brings efficiency to the operating process – whether operated with our M-Print® PRO software or as a stand-alone solution with pre-installed print templates.

The advantages for you at a glance:

- Precise colour printing
- Printing of metal markers as standard
- High level of automation thanks to magazine capacity of 30 MultiCards
- Durable and robust markers thanks to thermal fixing
- User-friendly thanks to intuitive touch display
- Can be used as stand-alone solution



The 5.7" true colour TFT touch panel can be swivelled and tilted to greatly simplify the work process.



Printing of plastic and metal markers as standard.



High magazine capacity up to 30 MultiCards.

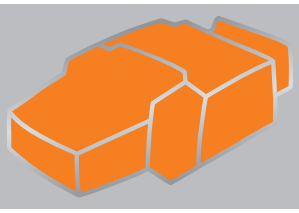
Technical data

	Description	
Intended use	Printing Weidmüller MultiCards and MetalliCards	
Technology	Inkjet procedure with integrated thermal fixing unit	
Feed	Automatic magazine for max. 30 MultiCards Individual feed for MetalliCards and MultiCards	
Fuses	Right fuse: 10 ATH 240/120 V Left fuse: 2.5 ATH 240/120 V	
Application site	Office conditions	
Ambient temperature	10 °C – 35 °C 0 °F – 95 °F	
Dimensions	Length including output rail: Length not including output rail: Width: Height with touch panel folded down: Height with touch panel folded up:	approx. 1.138 mm (44.80") approx. 945 mm (37.20") 554 mm (21.81") 328 mm (12.91") 422 mm (16.61")
Weight	57.8 kg (127.43 lb) with packaging 37.2 kg (82.01 lb) without packaging	
Ink system	Colour system – black, cyan, magenta, yellow	
Included in delivery	• PrintJet ADVANCED • Mains cable • USB cable • One MultiCard DEK 5/5	• One output rail • DVD with M-Print® PRO software • Quick start guide • Operating manual
	The ink cartridges and ink collector tray are installed in the printer.	

Ink-jet printer

PrintJet ADVANCED





Technical data

EAN	4050118127867
Length	950 mm
Width	555 mm
Height	310 mm
Net weight	48000 Kg
Printing method	Ink jet technology
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	Depends on printing quality
Print quality	1200 dpi
Marker type	MultiCard, MetalliCard
Interface	LAN, USB
Fueling system	Ink cartridge, CMYK
Supply voltage	230 V AC / 16 A, 115 V AC / 20 A
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
PRINTJET ADVANCED 115V	1	**1338700000**
PRINTJET ADVANCED 230V	1	**1324380000**

Note

Accessories

PrintJet ADVANCED	Type	Qty.	Order No.
Software	M-PRINT PRO	1	**1905490000**
Ink collecting tray	PJ ADV TNAW	1	**1338710000**
Cyan ink	PJ ADV TNTK INK C	1	**1338680000**
Magenta ink	PJ ADV TNTK INK M	1	**1338670000**
Yellow ink	PJ ADV TNTK INK Y	1	**1338650000**
Black ink	PJ ADV TNTK INK K	1	**1338690000**
Ink set	PJ ADV TNTK INK SET	1	**1338720000**
PrintJet PRO			
Ink collecting tray	PJ PRO TNAW	1	**1024140000**
Cyan ink	PJ PRO TNTK INK C	1	**1027050000**
Magenta ink	PJ PRO TNTK INK M	1	**1027060000**
Yellow ink	PJ PRO TNTK INK Y	1	**1027070000**
Black ink	PJ PRO TNTK INK K	1	**1027040000**
Ink set	PJ PRO TINTENSET FARBE	1	**1027110000**

Note

Thermal transfer printer THM MMP
The compact all-rounder

The only printer you will need for your marking tasks

The THM MMP is a compact and modularly constructed thermal transfer printer that makes full use of its many advantages and high number of potential uses. The integrated cutting and perforation option enables continuous materials to be cut to any length – making your work considerably easier when it comes to cutting and assigning the respective labels. The printer edits markers and labels from the MultiMark family as well as continuous materials, textile and polyester labels, heat shrink sleeves and PLC labels.
Snap-on terminal markers are printed using a separate print contact presure roller, which can be changed in just 30 seconds.

Another plus: the device is very easy to operate thanks to an intuitive touch display and clear status indicators – in 22 languages. The compact design and low weight of 3.5 kg also ensures that the THM MMP really
can be used anywhere, e.g. as a mobile printer for your on-site jobs.

Your benefits with MultiMark

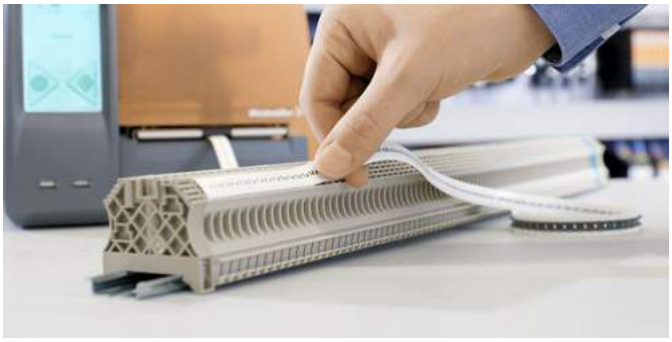
- A printer for all jobs
- Ideal for small and medium print volumes
- Virtually maintenance-free thanks to thermal transfer technology
- Excellent readability (resolution: 300 dpi)
- Flexibility provided by modular perforation and cutting unit
- The contact presure roller can be changed in 30 seconds
- High output, from 250 Dekafix markers/min.

Technical data

	Description
Intended use	Printing Weidmüller MultiMark, DEK and WS strip marker, shrink tubes, label on rolls
Technology	Thermal transfer
Feed	Manuall mounting
Application site	Office conditions
Ambient temperature	5 °C to 40 °C
Included in delivery	• THM MMP • Power cable (Typ E+F/ UK/ USA) • USB cable • RIBBON MM-TB 25/360 SW • RIBBON MM 110/360 SW • Cardboard core • Print roller • Operating manual • DVD with M-Print® PRO software



All-rounder THM MMP: the printer handles marking jobs that would otherwise need to be done by several different devices.



DEK/WS: Flexible connector markers – print, clip, finished

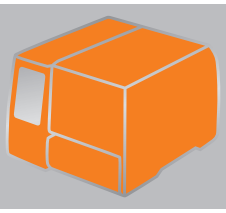


The excellent characteristics of each marker make it easy for you to use MultiMark as Marking system.

Thermal transfer printer

THM MMP





Technical data

EAN	4050118440973
Length	320 mm
Width	253 mm
Height	253 mm
Net weight	5800 Kg
Printing method	Thermotransfer
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	125 mm/s
Marker type	MultiMark, Shrink sleeves, Label reel
Interface	USB, LAN
Supply voltage	100...240 V AC
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
THM MMP	1	**2430920000**
Note		

Accessories

Type	Qty.	Order No.
Cutting blade		
Perforator		
Printer ribbons		
Terminal markers		
Label, wide, black		
Label, narrow, black		
Label, narrow, white		
Shrink sleeve, endless		
Shrink sleeve, assembled		
Miscellaneous accessories		
Reel holder		
Case		
Note		
THM MMP CUTTER	1	**1331600000**
THM MMP PERFORATOR	1	**1416330000**
RIBBON MM-TB 25/360 SW	1	**2005090000**
RIBBON MM 110/360 SW	1	**2005070000**
RIBBON MM 80/360 SW	1	**2005080000**
RIBBON MM 80/300 WS	1	**2005040000**
RIBBON HSS HF EL 40/300	1	**1426210000**
RIBBON MM-HS 60/300 SW	1	**2448880000**
THM MMP EXT.RH	1	**1302920000**
THM MMP CASE	1	**2457760000**

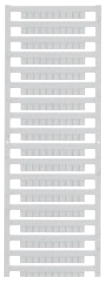
Marker tags for distributors

Marker tags can be affixed to distributors to ensure unique identification. For marking our standard M12 products, ESG 9/20 tags are used. M8 and M5 distributors can be labelled with WS 10/5 and DEK 5 markers. For labelling metal distributors, self-adhesive ESG 9/17 must be used.

In the case of the SAI Active family, we differentiate between SAI Active Universal and SAI Active Line. For labelling of Active Universal, we offer ESG 8/13.5/43.3 SAI AU. For labelling of Active Line, the ESG 9/6 is used.

All of these markers are available in MultiCard format and can therefore also be printed using our innovative PrintJet PRO marking solutions.

DEK for marking of M8 and M5 distributors





DEK – Blank

Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	1000	**1609801044**

DEK – Custom printing

Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	200	**1609810000**

WS for marking of M8 and M5 distributors





WS – Blank

Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	720	**1635000000**
WS 15/5 MC	white	5 mm/15 mm	480	**1609880000**

WS – Custom printing

Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	144	**1635010000**
WS 15/5 MC	white	5 mm/15 mm	96	**1609890000**

ESG for marking of M12 distributors





Ordering data

Type for SAI Active Line	Colour	Width/Length	Qty.	Order No.
ESG 9/20 MC NEUTRAL WS	white	20 mm/9 mm	200	**1609940000**

ESG for marking of M12 Universal distributors



Ordering data

Type for SAI Active Universal	Colour	Width/Length	Qty.	Order No.
ESG 8/13.5/43.3 SAI AU	transparent	13.5 mm/43.3 mm/8 mm	5	**1912130000**

Service and support

Service and support	Our expertise for your requirements	V.2
	Benefit from optimum support when using our products	V.4

Our expertise for your requirements
Service connects - worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity. Our worldwide network of industrial managers for machine construction, process automation, energy and traffic engineering and for device manufacturers know the challenges you face and can support you in your specific applications.

Training course on technologies, applications and the detailed functionality of our products is available to you locally or at our headquarter in Germany. Our personal support can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products - from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.





Professional advice on planning
Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.



Technology and application training
Industrial automation is moving towards smart production. It faces the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy, on your premises if you wish or online in our webinars at any time.



Customised installation
The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.

Technical appendix

Technical appendix	Sensor Actuator Interface Passive – Overview	W.2
	Coding systems	W.4
	Sensor Actuator Interface Passive – Connection plan	W.10
	Cable overview	W.12
	Drilling templates	W.14
	Resistence Charts	W.24

Sensor Actuator Interface Passive – Overview







Technical data

			M5	M8	M12
Material data					
Insulating material	– Housing		PA 6 GF	PBT (UL 94 V0)	PBT (UL 94 V0)
	– Contact carrier		PA66	PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	– Contact		CuSn4	CuSn6	CuSn6
	– Screw socket		CuZn, nickel-plated	CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		°C	–25 ...+90	–20...+90	–20...+90
Colour	– Housing		grey, RAL 7032	grey, RAL 7032	grey, RAL 7032
	– PG & contact carrier			black	black
Cable sheathing			PUR	PUR	PUR
Cable type			PUR/PVC	halogen-free	halogen-free, UL
O-ring			Viton	Viton	Viton
Housing seal					foamed PUR
Type of connection, hood version				tension clamp	screw/tension clamp
Clamping range		mm^2		0.08...1.0	0.08...1.5
AWG No.				28...18	22...14
Stripping length, hood version		mm		100	100
Stripping length, screw version		mm		-	7
Stripping length, tension clamp version		mm		7	10
Contact surface				tin	tin
– BL3.5 / B2L					
Contact base material				Cu alloy	Cu alloy
– BL3.5 / B2L					
Torques					
– Hoods		Nm		0.8	0.8
– Blanking plugs		Nm		0.5	0.5
Mechanical data					
Ingress Protection Class*		IP	67	68 (M16/M23 IP 67)	68
Suitability for cable carrier		cycles at 15d	1 Mio. 15d	1 Mio. 15d	2 Mio. 10d
IDC connection					
Max. connect. frequency of a cable with same cross-section					-
Stripping length		mm			
Conductor cross-section (flexible)		mm^2			-
Smallest strand diameter		mm			-
Conductor insulation material					-
Conductor outside diameter		mm			-
Cable outside diameter		mm			-
Pin assignment					-
Electrical data to VDE 110 (Apr 97)					
Operating voltage		V-	10 ... 30	10 ... 30	10 ... 30
Max. current carrying capacity per I/O signal		A	1	2 (Derating)	2 (Derating)
– total with single supply		A	3	8	10 (9 A for F-version)
– total with dual supply		A	-	-	2 x 8 = 16
Rated voltage		V_{eff}	24	32	32
Test voltage		kV_{eff}		1.0	1.0
Pollution severity				3	3
Insulation resistance		Ω		> 10^9	> 10^9
Other data					
Dimensions		see chapter G			
Fixing holes		see chapter G			
Function indicators					
– for operating voltage			1 x LED, green	1 x LED, green	2 x LED, green
– for I/O function			1 x LED, yellow (per function)	1 x LED, yellow (per function)	1 x LED, yellow (per function)
Current isolation (SAI-... -M)				-	via 2 jumper plugs
Cable strain relief (SAI-... -M)				M20	M20
Max. cable diameter (SAI-... -M)		mm		10–14	6–12

* only when plugged in and secured





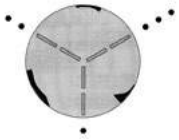
Technical data

Material data			IDC	M12 Push-Pull
Insulating material	– Housing		PBT (UL 94 V0)	PA 6 GF
	– Contact carrier		PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	– Contact		CuZn, pre-nickeled & gold-plated	CuSn6
	– Screw socket		CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		°C	–20 ... +90	–25 ... +80
Colour	– Housing		grey, RAL 7032	grey, RAL 7032
	– PG & contact carrier		black	black
Cable sheathing			PUR	PUR
Cable type			PUR/PVC	halogen-free, UL
O-ring			Viton	Viton
Housing seal			foamed PUR	foamed PUR
Type of connection, hood version			screw/tension clamp	tension clamp
Clamping range		mm^2	0.08 ... 1.5	0.08 ... 1.5
AWG No.			22 ... 14	22 ... 14
Stripping length, hood version		mm	100	100
Stripping length, screw version		mm	7	7
Stripping length, tension clamp version		mm	10	10
Contact surface			tin	tin
– BL3.5 / B2L				
Contact base material			Cu alloy	Cu alloy
– BL3.5 / B2L				
Torques				
– Hoods		Nm	0.8	0.8
– Blanking plugs		Nm	0.5	
Mechanical data				
Ingress Protection Class*		IP	67	68
Suitability for cable carrier		cycles at 15d	1 Mio. 15d	2 Mio. 10d
IDC connection				
Max. connect. frequency of a cable with same cross-section			10	
Stripping length		mm	15 ... 20	
Conductor cross-section (flexible)		mm^2	0.25 ... 0.5	
Smallest strand diameter		mm	0.1	
Conductor insulation material			PVC/PE/PUR	
Conductor outside diameter		mm	1.2 ... 1.6	
Cable outside diameter		mm	3.5 ... 5.0	
Pin assignment			see next page	
Electrical data to VDE 110 (Apr 97)				
Operating voltage		V-	10 ... 30	10 ... 30
Max. current carrying capacity per I/O signal		A	2 (Derating)	2
– total with single supply		A	10 (9 A for F-version)	10
– total with dual supply		A	2 x 8 = 16	
Rated voltage		V_{eff}	32	32
Test voltage		kV_{eff}	1.0	1.0
Pollution severity			2	3
Insulation resistance		Ω	> 10^9	
Other data				
Dimensions		see chapter G		
Fixing holes		see chapter G		
Function indicators				
– for operating voltage			2 x LED, green	1 x LED, green
– for I/O function			1 x LED, yellow (per function)	1 x LED, yellow (per function)
Current isolation (SAI-... -M)			via 2 jumper plugs	
Cable strain relief (SAI-... -M)			M20	M20
Max. cable diameter (SAI-... -M)		mm	6–12	6–12
* only when plugged in and secured				

Contact assignment

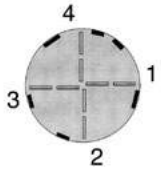
SAI-M/SAI-F – IDC

3-pole:



Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output
3	blue	0 V DC

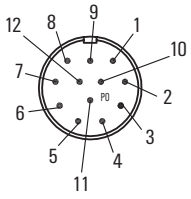
4-pole:



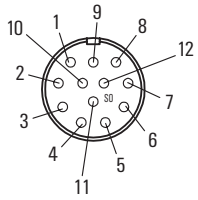
Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	no colour	input/output 2
3	blue	0 V DC
4	black	input/output 1

M23

12-pole:



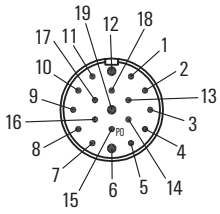
Male



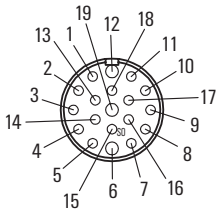
Female

Pole	Colour code	Plug-in station	Contact M12
1	white	1	4
2	green	2	4
3	yellow	3	4
4	grey	4	4
5	pink	5	4
6	red	6	4
7	black	7	4
8	violet	8	4
9	blue (–)	1 – 8	3
10	blue (–)	1 – 8	3
11	brown (+)	1 – 8	1
12	green-yellow (PE)	1 – 8	5

19-pole:



Male



Female

Pole	Colour code	Plug-in station	Contact M12
1	violet	8	4
2	red	6	4
3	grey	4	4
4	red/blue	2	2
5	green	2	4
7	grey/pink	1	2
8	white/green	3	2
9	white/yellow	5	2
10	white/grey	7	2
11	black	7	4
13	yellow/brown	6	2
14	brown/green	4	2
15	white	1	4
16	yellow	3	4
17	pink	5	4
18	grey/brown	8	2
6	blue (–)	1 – 8	3
12	green-yellow (PE)	1 – 8	5
19	brown (+)	1 – 8	1

Coding systems for round connectors

Round connectors are used for wiring sensors, actuators and data cables.
To prevent wiring errors, there are different coding systems: for M12, the plug-in connectors are coded A, B and D. The M12 A-coded plug-in connector is available with 3 to 5 pins, 8 and 12 pins. There is no coding for M8 and M5.

The arrangement of the pins in the M8 plug-in connector (asymmetrical) rules out the possibility of 3- and 4-pole M8 plug-in connectors being connected together. In the case of M5 plug-in connectors, 3- and 4-pole plug-in connectors can be connected together since the pins are symmetrically arranged.

A-coded, M12, Sensor wiring

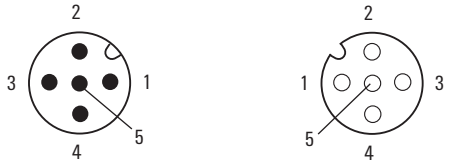
2- to 5-pole:



Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output 2*
3	blue	0 V DC
4	black	input/output 1
5	grey	FE
	Housing	shield**
	*) = only 5-pole version	**) = only with shielded version

A-coded, M12, PROFIBUS-PA

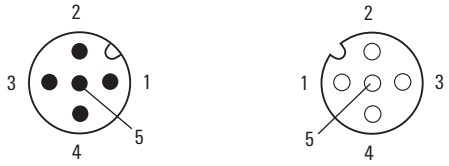
2- to 5-pole:



Pole	Colour code	Assignment
1	red	DATA-B
3	green	DATA-A
Housing		shield

A-coded, M12, CANopen/DeviceNet™

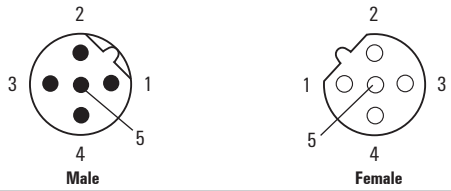
2- to 5-pole:



Pole	Colour code	Assignment
1		shield (drain wire)
2	red	V+
3	black	V- (CAN_GND)
4	white	CAN_H signal
5	blue	CAN_L signal
Housing		shield

B-coded, M12, PROFIBUS-DP

3- to 5-pole:

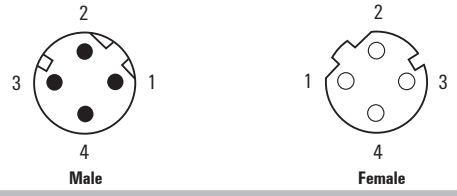


Pin	Colour code	Assignment
2	green	Data A
4	red	Data B
Housing		shield

D-coded, M12, Industrial Ethernet

Industrial Ethernet

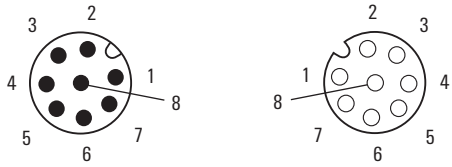
4-pole:



Pin	Colour code	Assignment
1	yellow	TD+ (transmit data +)
2	white	RD+ (receive data +)
3	orange	TD - (transmit data -)
4	blue	RD - (receive data -)
Housing		shield

M12

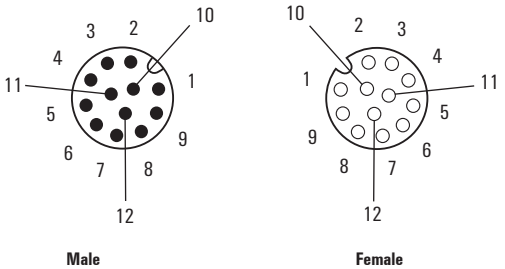
8-pole:



Pole	Colour code	Assignment
1	white	signal
2	brown	signal
3	green	signal
4	yellow	signal
5	grey	+ 24 V DC
6	pink	signal
7	blue	0 V DC
8	red	signal

M12

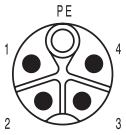
12-pole:



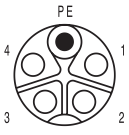
Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	blue	0 V DC
3	white	input/output 1
4	green	input/output 1
5	pink	input/output 1
6	yellow	input/output 1
7	black	input/output 1
8	grey	input/output 1
9	red	input/output 1
10	violet	input/output 1
11	grey/pink	input/output 1
12	red/blue	input/output 1

K-coded, M12

5-pole:



Male

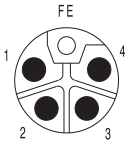


Female

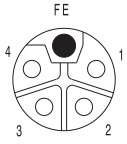
Pin	Colour code	Assignment
1	black 1	
2	black 2	
3	black 3	
4	black 4	
5	green/yellow	

L-coded, M12

5-pole:



Male

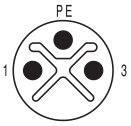


Female

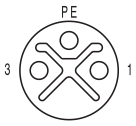
Pin	Colour code	Assignment
1	brown	
2	white	
3	blue	
4	black	
5	grey	

S-coded, M12

3-pole:



Male

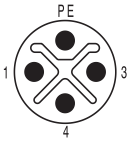


Female

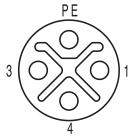
Pole	Colour code	Assignment
1	brown	
2	green/yellow	
3	blue	

S-coded, M12

4-pole:



Male

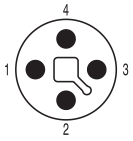


Female

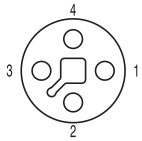
Pole	Colour code	Assignment
1	brown	
2	black	
3	grey	
4	green/yellow	

T-coded, M12

4-pole:



Male

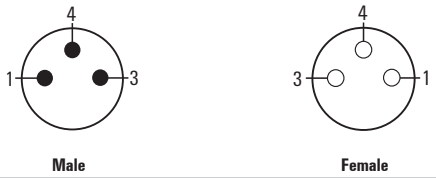


Female

Pin	Colour code	Assignment
1	brown	
2	white	
3	blue	
4	black	

M8 connector position

3-pole:



Pin	Colour code	Assignment
1	brown	+ 24 V DC
3	blue	0 V DC
4	black	input/output 1

M8 connector position

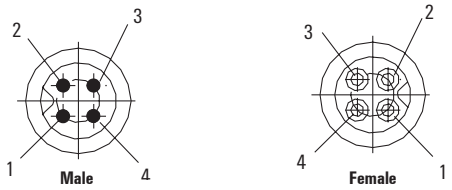
4-pole:



Pin	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output 2
3	blue	0 V DC
4	black	input/output 1

M5 connector position

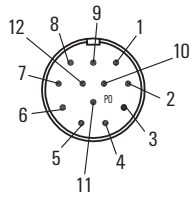
4-pole:



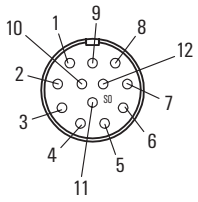
Pin	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output 2
3	blue	0 V DC
4	black	input/output 1

M23

12-pole:



Male

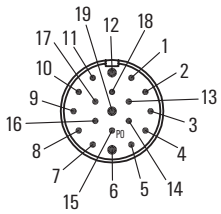


Female

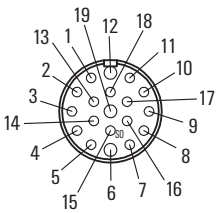
Pole	Colour code	Assignment	Cross-section
1	white	signal	0.34
2	green	signal	0.34
3	yellow	signal	0.34
4	grey	signal	0.34
5	pink	signal	0.34
6	red	signal	0.34
7	black	signal	0.34
8	violet	signal	0.34
9	nc	nc	nc
10	blue	0 V DC	0.75
11	brown	+ 24 V DC	0.75
12	green/yellow	PE	0.75

M23

19-pole:



Male



Female

Pole	Colour code	Assignment	Cross-section
1	violet	signal	0.34
2	red	signal	0.34
3	grey	signal	0.34
4	red/blue	signal	0.34
5	green	signal	0.34
6	blue	0 V DC	0.75
7	grey/pink	signal	0.34
8	white/green	signal	0.34
9	white/yellow	signal	0.34
10	white/grey	signal	0.34
11	black	signal	0.34
12	green/yellow	PE	0.75
13	yellow/brown	signal	0.34
14	brown/green	signal	0.34
15	white	signal	0.34
16	yellow	signal	0.34
17	pink	signal	0.34
18	grey/brown	signal	0.34
19	brown	+ 24 V DC	0.75

Sensor Actuator Interface Passive – Connection plan

Connection plan

Conductor colour

Terminal Connection No.		Connector position	M5/M8-contact 3-pole	M5/M8-contact 4-pole	M12-contact	IDC-contact 3-pole	IDC-contact 4-pole	Potential	Conductor colour	Colour code
1	=	1	4	4	4	2	4	E/A 1-1	white	WH
2	=	2	4	4	4	2	4	E/A 2-1	green	GN
3	=	3	4	4	4	2	4	E/A 3-1	yellow	YE
4	=	4	4	4	4	2	4	E/A 4-1	grey	GY
5	=	5	4	4	4	2	4	E/A 5-1	pink	PK
6	=	6	4	4	4	2	4	E/A 6-1	red	RD
7	=	7	4	4	4	2	4	E/A 7-1	black	BK
8	=	8	4	4	4	2	4	E/A 8-1	violet	VT
9	=	1	–	2	2*		2	E/A 1-2	grey/pink	GYPK
10	=	2	–	2	2*		2	E/A 2-2	red/blue	RDBL
11	=	3	–	2	2*		2	E/A 3-2	white/green	WHGN
12	=	4	–	2	2*		2	E/A 4-2	brown/green	BNGN
13	=	5	–	2	2*		2	E/A 5-2	white/yellow	WHYE
14	=	6	–	2	2*		2	E/A 6-2	yellow/brown	YEBN
15	=	7	–	2	2*		2	E/A 7-2	white/grey	WHGY
16	=	8	–	2	2*		2	E/A 8-2	grey/brown	GYBN
17	=	1, 3, 5, 7	1	1	1	1	1	U1 + (24 V DC)	brown	BN
18	=	1, 3, 5, 7	3	3	3	3	3	U1 - (0 V)	blue	BU
19	=	2, 4, 6, 8	–	–	1	1	1	U2 + (24 V DC)	red*	RD*
20	=	2, 4, 6, 8	–	–	3	3	3	U2 - (0 V)	black*	BK*
21	=	1, 2, 3, 4, 5, 6, 7, 8	–	–	5	–	–	PE	green/yellow	GNYE

* Contact used in 5-pole version only

Plug insert, hood version

Note:
SAI distributors with fixed cable have a single supply conductor as standard. The voltage U1 is supplied to all the sockets. An SAI distributor with fixed cable but with separate supply voltage is available on request.

Tension clamp connection



Pin assignment



Screw connection



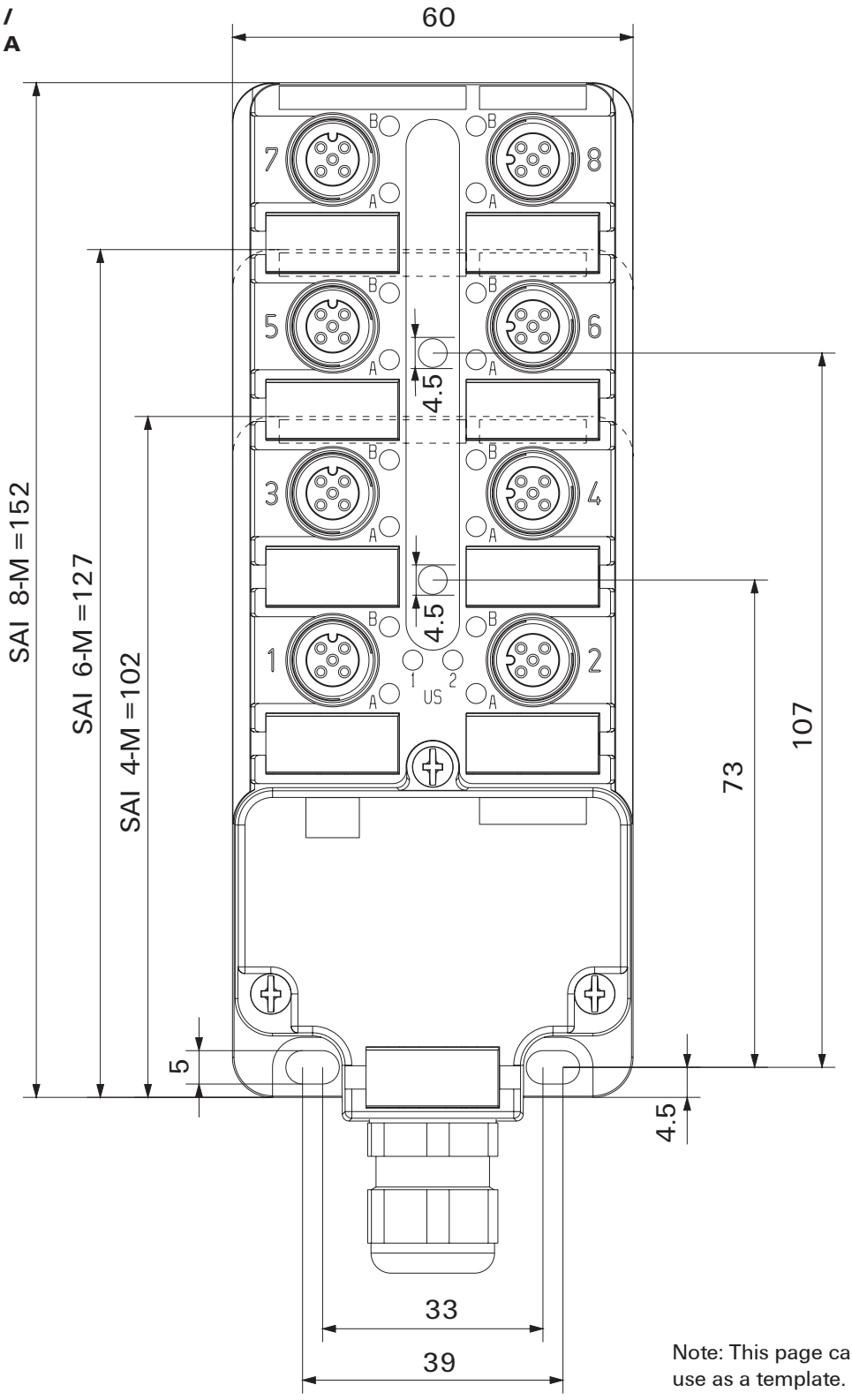
Cable overview

Cables	Identification in article designation	Cable gland	Wire number / cross-section	Colour	Colour coding	Suitable for torsion	Wire core insulation	
M8 unshielded								
PVC	V	M8	3x0.25 mm²	black	BR,BL,SW	No	PVC	
	V	M8	4x0.25 mm²	black	BR,WS,BL,SW	No	PVC	
PUR halogen-free	U	M8	3x0.25 mm²	black	BR,BL,SW	No	TPM	
	U	M8	4x0.25 mm²	black	BR,WS,BL,SW	No	TPM	
PUR halogen-free yellow	UGE	M8	3x0.25 mm²	yellow	BR,BL,SW	No	TPE	
	UGE	M8	4x0.25 mm²	yellow	BR,WS,BL,SW	No	TPE	
PUR resistant to welding beads	T	M8	3x0.34 mm²	black	BR,BL,SW	Yes	TPE	
	T	M8	4x0.34 mm²	black	BR,WS,BL,SW	Yes	TPE	
M8 shielded								
PUR halogen-free	U	M8	3x0.34 mm²	black	BR,BL,SW	No	PP	
	U	M8	4x0.34 mm²	black	BR,WS,BL,SW	No	PP	
M12 unshielded								
PVC	V	M12	3x0.34 mm²	black	BR,BL,SW	No	PVC	
	V	M12	4x0.34 mm²	black	BR,WS,BL,SW	No	PVC	
	V	M12	5x0.34 mm²	black	BR,WS,BL,SW,GR	No	PVC	
PUR halogen-free	U	M12	3x0.34 mm²	black	BR,BL,SW	No	TPM	
	U	M12	4x0.34 mm²	black	BR,WS,BL,SW	No	TPM	
	U	M12	5x0.34 mm²	black	BR,WS,BL,SW,GR	No	TPM	
	U	M12	8x0.25 mm²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP	
PUR halogen-free yellow	UGE	M12	3x0.34 mm²	yellow	BR,BL,SW	No	TPE	
	UGE	M12	4x0.34 mm²	yellow	BR,WS,BL,SW	No	TPE	
	UGE	M12	5x0.34 mm²	yellow	BR,WS,BL,SW,GR	No	TPE	
PUR resistant to welding beads	T	M12	3x0.34 mm²	black	BR,BL,SW	Yes	TPE	
	T	M12	4x0.34 mm²	black	BR,WS,BL,SW	Yes	TPE	
	T	M12	5x0.34 mm²	black	BR,WS,BL,SW,GR	Yes	TPE	
M12 shielded								
PUR halogen-free	U	M12	3x0.34 mm²	black	BR,BL,SW	No	TPE	
	U	M12	4x0.34 mm²	black	BR,WS,BL,SW	No	TPE	
	U	M12	5x0.34 mm²	black	BR,WS,BL,SW,GR	No	TPE	
	U	M12	8x0.25 mm²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP	
Data cables								
Universal Pro (SubBus)								
PUR halogen-free	U-SB	M8	4x0.34 mm²	black	BR,WS,BL,SW	No	PP	
TYPE A	C5AS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE	
TYPE B	C5DS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE	
TYPE C	C5DD4UG	M12/RJ45	4xAWG 22	green	WS,BL,OR,GE	No	PE	
EtherCat								
PUR halogen-free	UIE	M8	4x0.15 mm²	green	BL,OR,WSBL,WSOR	No	PP	
PROFIBUS DP								
PUR halogen-free	D	M12	2x0.24 mm²	violet	RT, GN	No	TPE	
PVC massive cable	E	M12	2x0.24 mm²	violet	RT, GN	No	PVC	
PROFIBUS PA								
PVC	M	M12	2x1.0 mm²	black	RT, GN	No	PE	
PVC	M	M12	2x1.0 mm²	blue	RT, GN	No	PE	
CANDeviceNet™								
PUR halogen-free	A	M12	2x0.22 mm² + 2x0.34 mm²	black	WS,BL (0.22 mm²), RT,SW (0.34 mm²)	No	TPE	
PVC	B	M12	2x0.22 mm² + 2x0.34 mm²	black	WS,BL (0.22mm²), RT,SW (0.34mm²)	No	PVC	
Note	Additional technical data available upon request							

	Outer cladding	Suitable for dragline cable carriers	Bending radius in cable ∅		Temperature range in °C		External-Ø in mm	Halogen-free	UL
			Rigid	Moving	Rigid	Moving			
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx. 4.5	No	Yes
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx. 4.8	No	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.4	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.4	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 4.8	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 5.1	Yes	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 4.9	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 5.3	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 5.7	No	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.3	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.7	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.9	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.3	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.7	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 5.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.4	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.7	Yes	Yes
	PUR	Yes	5x	12x	-40 / +80	-25 / +80	approx. 6.3	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 5.1	Yes	Yes
	PVC	No	3.5x	7.5x	-40 / +75	-20 / +60	approx. 6.5	No	Yes
	PVC	No	3.5x	7.5x	-40 / +70	-20 / +60	approx. 6.5	No	Yes
	PUR	Yes	5x	7.5x	-40 / +70	-20 / +60	approx. 6.5	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +80	-/-	approx. 4.8	Yes	Yes
	PUR	Yes	7.5x	15x	-40 / +70	-20 / +60	approx. 7.8	Yes	No
	PVC	No	9x	18x	-20 / +70	-5 / +60	approx. 7.8	No	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx. 8.0	No	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx. 8.0	No	No
	PUR	Yes	5x	10x	-40 / +80	-10 / +80	approx. 7.0	Yes	Yes
	PVC	No	5x	10x	-40 / +80	-10 / +80	approx. 7.2	No	Yes

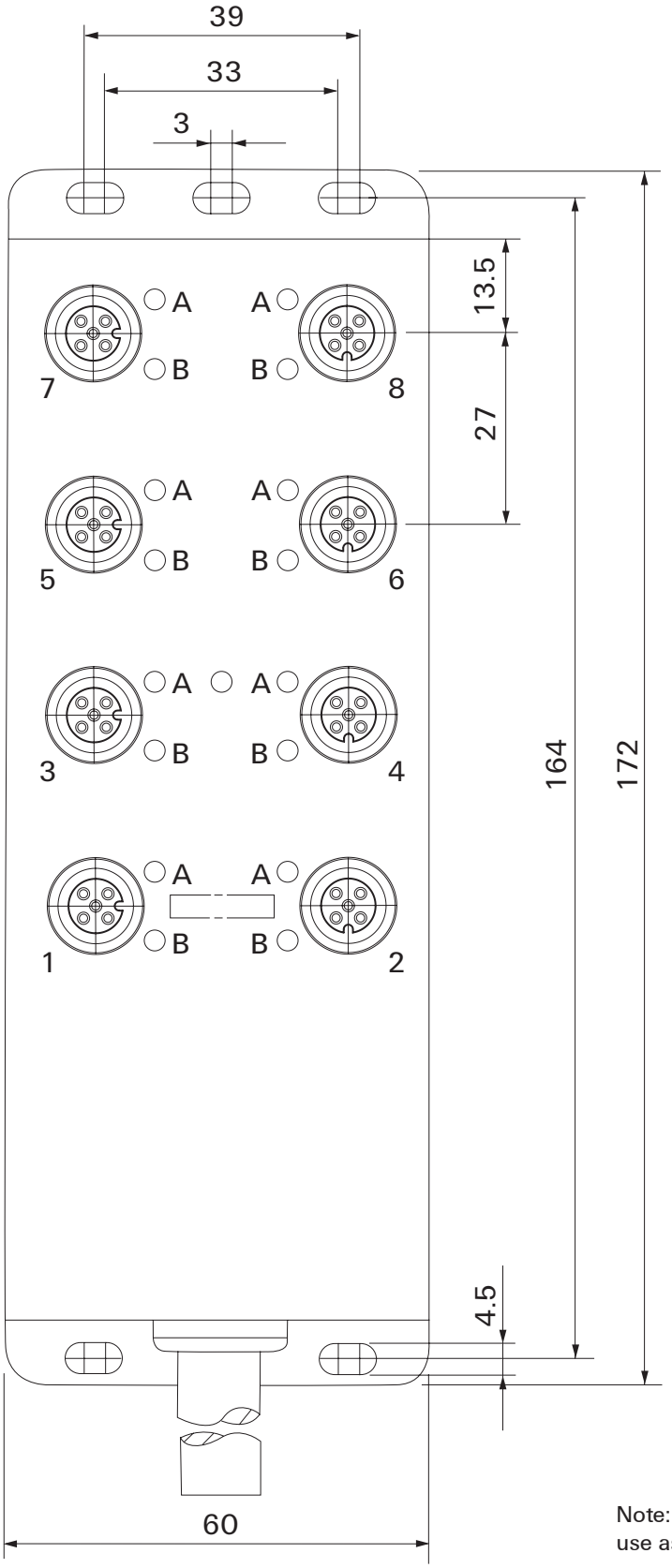
Drilling templates

**SAI M12 and M12 Push-Pull:
hood / M23 / M16 /
fixed cable / IDC / A**



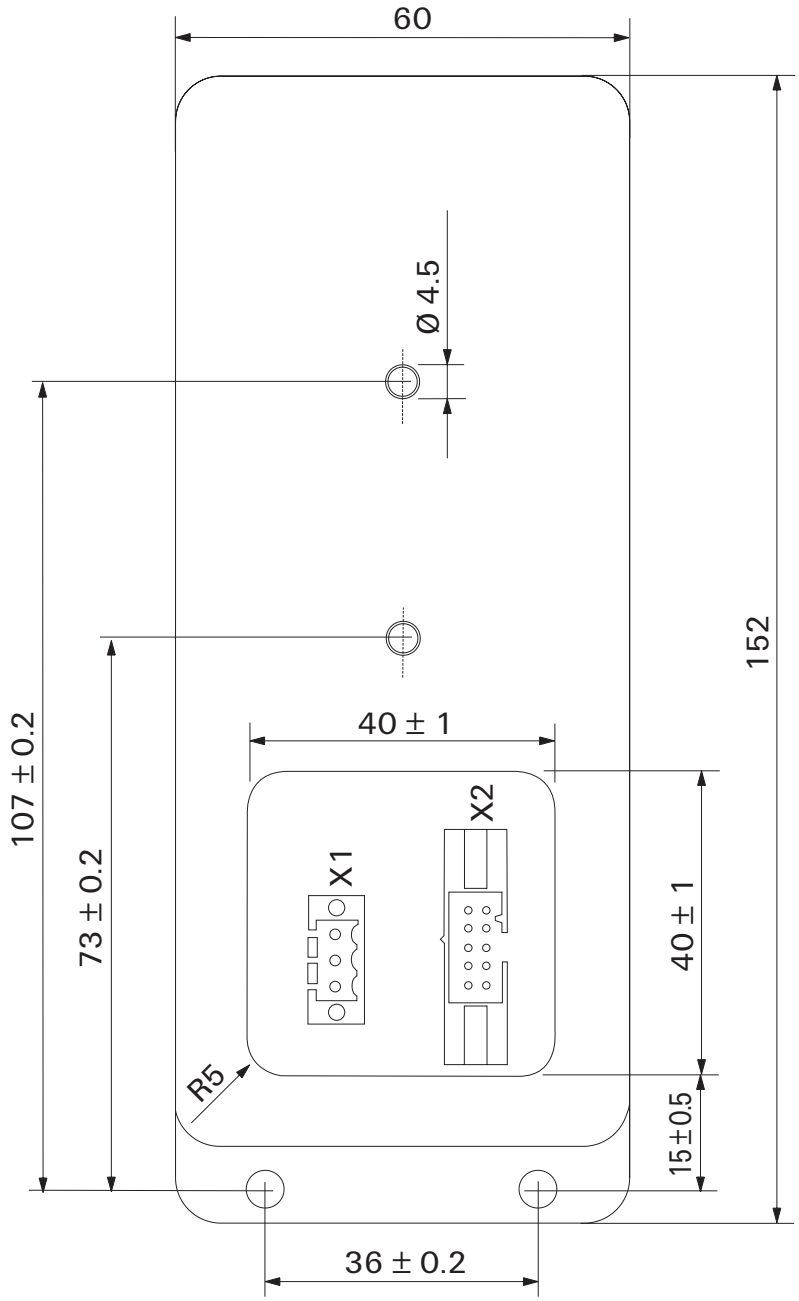
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SAI stainless steel



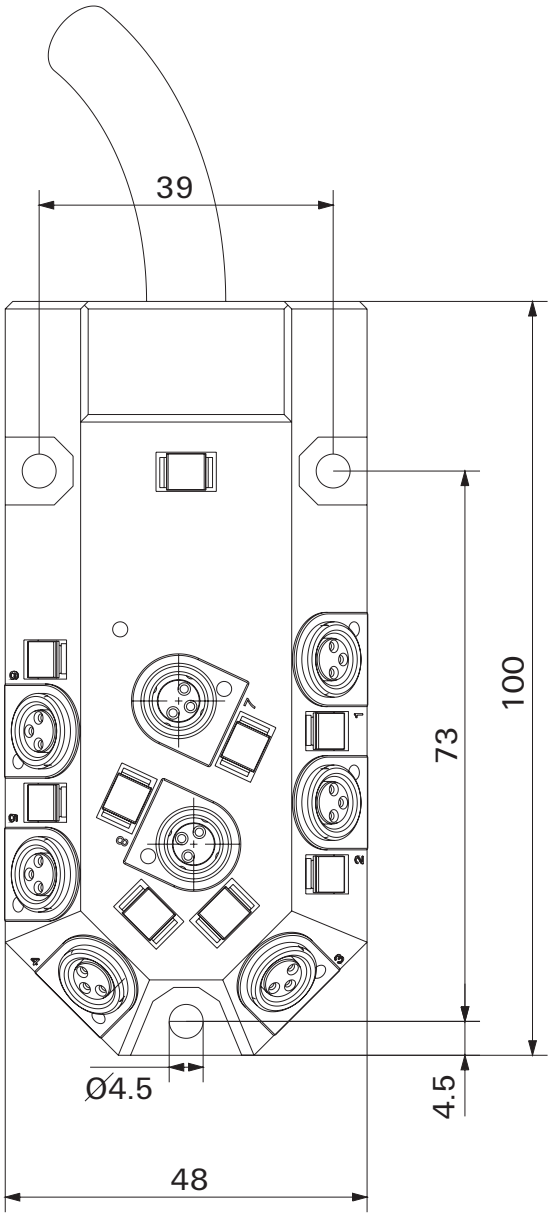
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SAI wall bushing



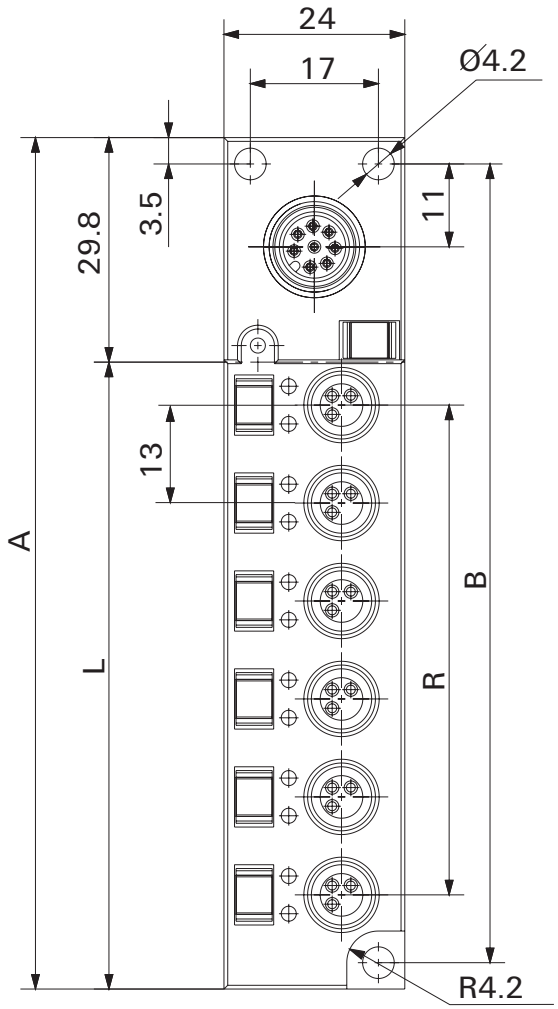
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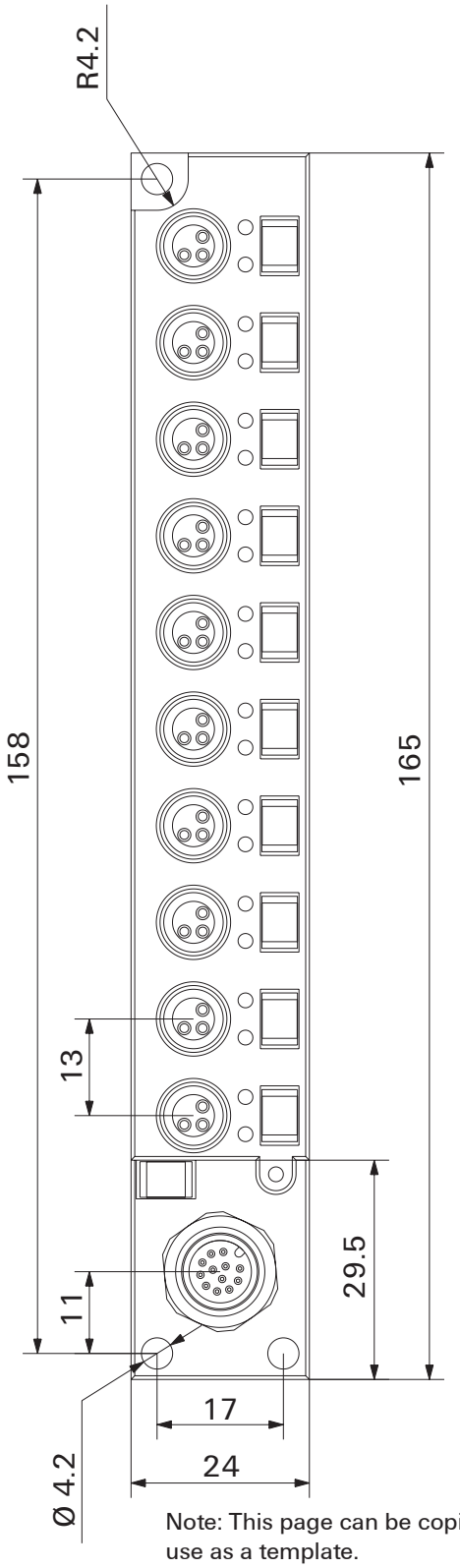
SAI M8 standard



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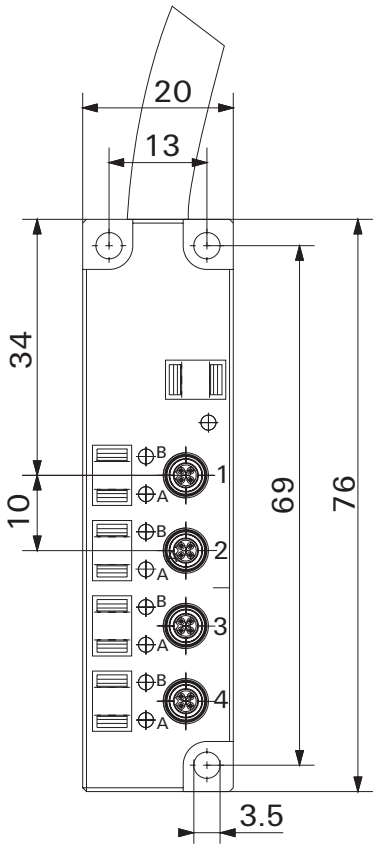
SAI M8 line

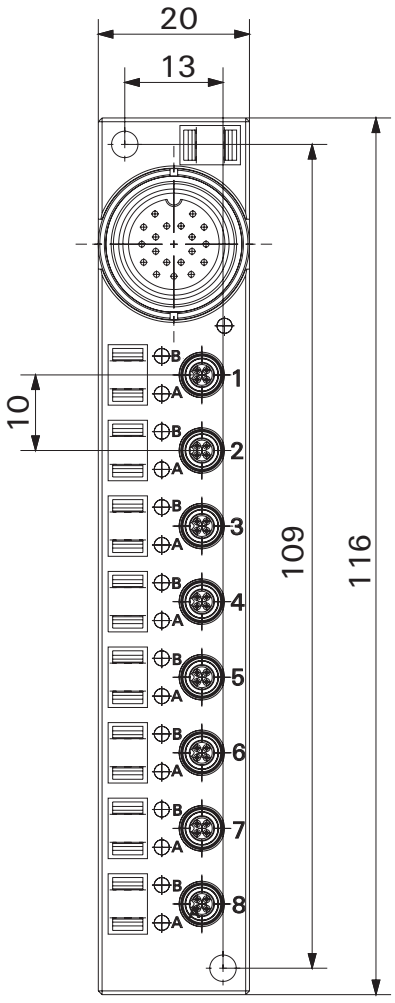




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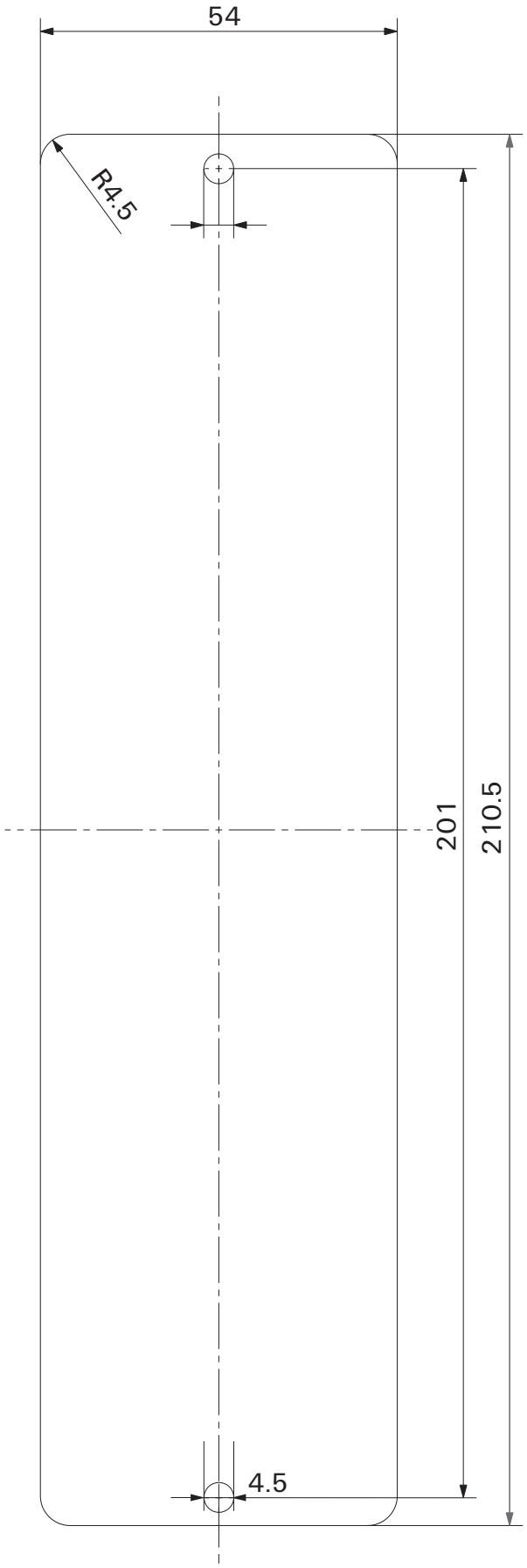
SAI M5





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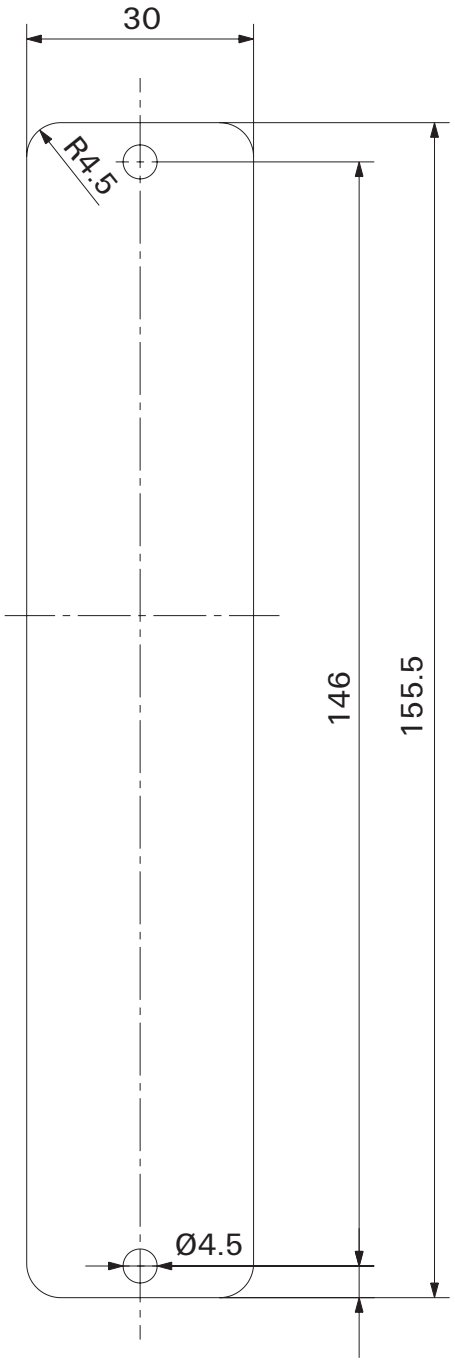
SAI Active Universal



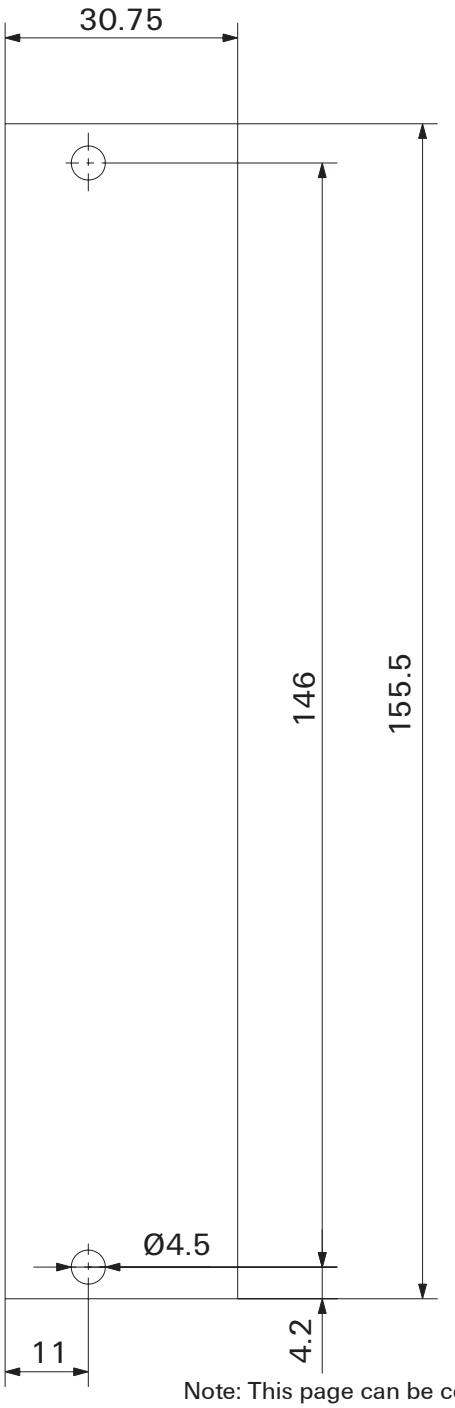
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SAI Active Universal Pro:
Subbus modules with digital outputs

Plan view



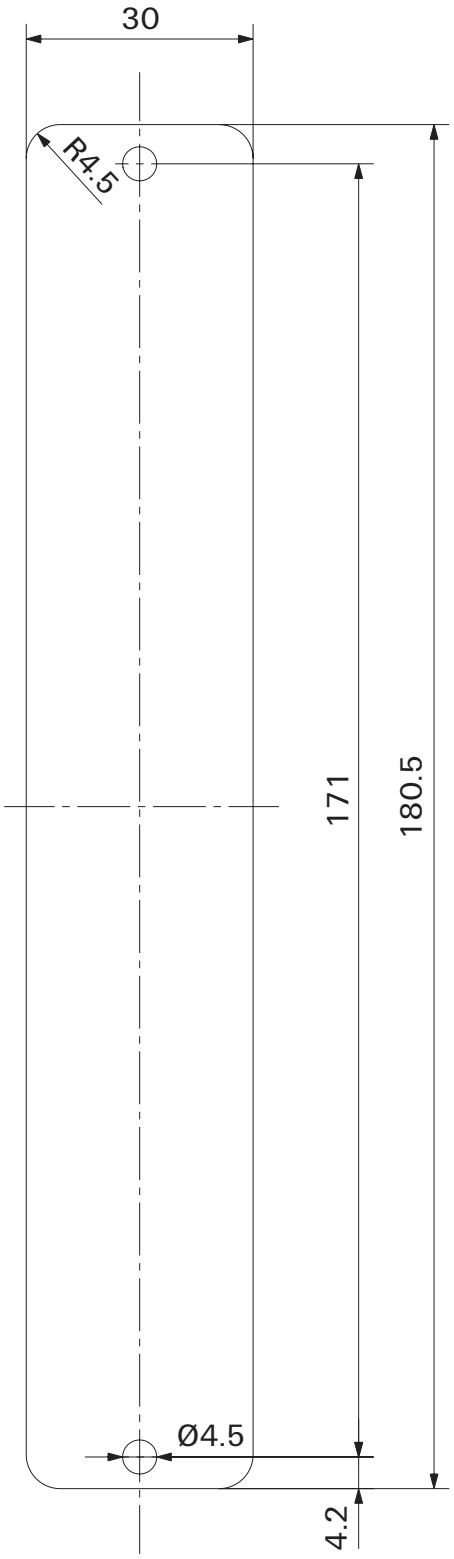
Side view



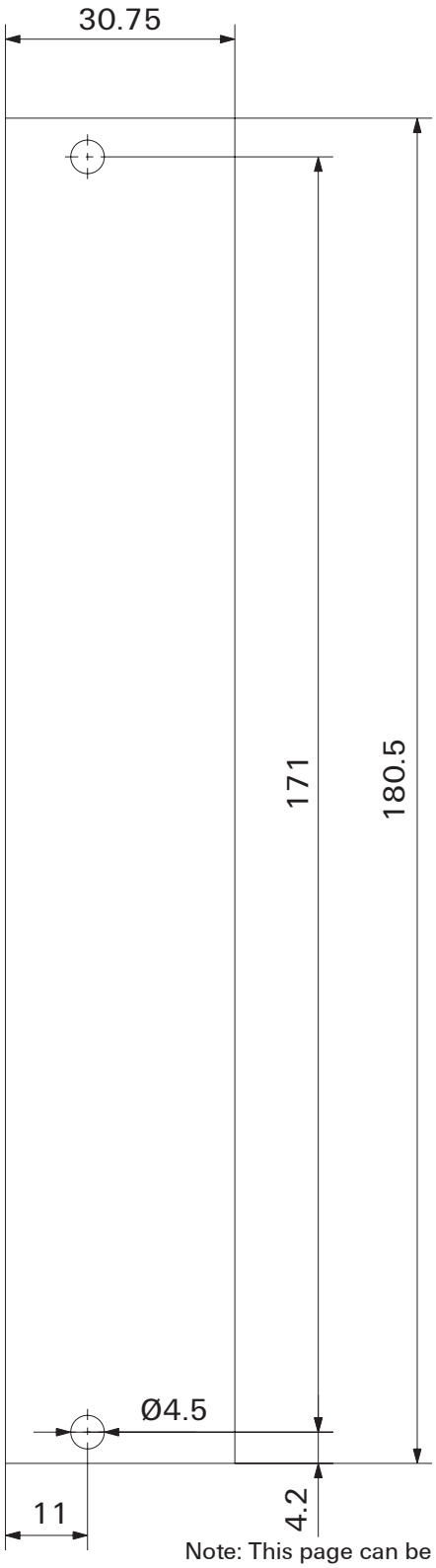
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SAI Active Universal Pro:
Sub-bus modules without digital outputs

Plan view



Side view



Note: This page can be copied to use as a template.

Chemical resistance of nickel

The statements on the resistance of nickel to chemicals only apply when the coating is undamaged and is not subject to any mechanical loads. These statements are based on a review of the literature available and it should be noted that pure nickel is not considered in the literature – only alloyed nickel steels.

The statements on page W.15 are based on research, and once again please note that pure nickel has not been included in the testing. The findings in the research are based on undamaged alloyed nickel steels that have not been subject to any mechanical loads.

The six materials in question are:

Chlorobenzene	1
Chloroform	1
Chromic acid hydride	1
Acetic acid	1
Hydrofluoric acid	2
Concentrated hydrochloric acid	2

The findings for the two materials above marked with a "2" could have a critical impact on applications. The findings for the four materials marked with a "1" should be taken into account but would not be considered critical for applications.

A further advantage of nickel is its thermal stability. The resistance does not change up to a temperature of 120 °C.

Pure nickel:
Corrosion properties are determined by the resistance of the passive layer.

Good resistance in:
- water containing oxygen
- flowing seawater
- alkalis (very good resistance) even at high temperatures and high concentrations
- neutral and alkaline salt solutions (carbonates, phosphates, sulphates, chlorides and nitrates) even at high concentrations and temperatures

Known problems:
- corrosion attack in heavily oxidising acids and solutions containing chlorides
- in inorganic and organic acids only resistant in diluted solutions and at low temperatures
- coating is not toxic (formation of deposits by micro-organisms can lead to destruction of the passive coating)

Chemical resistance of Pocan® (PBT)

Pocan® offers good resistance to chemicals. Organic solvents, such as aliphatic hydrocarbons, alcohols, ether, long-chain ester as well as fats, oils and perchlorinated hydrocarbons do not corrode Pocan®.

This is also true for water and aqueous solutions, neutral and acid salts, as well as diluted acids.

On the other hand, it is susceptible to alkalis, oxidising acids, ketones and phenols.

Susceptibility to universal alcohols, aromatics and ketones increases as the ambient temperature rises above 60 °C.

In the presence of water and aqueous solutions, hydrolytic degradation at higher temperatures increasingly leads to a decline in stability.

Substances like motor and transformer oils, petrol and brake fluids do not corrode Pocan®, even at higher temperatures.

Medium	23 °C	60 °C
Acetic acid 10%	±	±
Acetone	+	-
Ammonia 10%	+	-
Ammonia, concentrated	±	-
Benzene	+	-
Brake fluid	+	+
Butane	+	+
Butanol	+	±
Butyl acetate	+	+
Calcium chloride 10%	+	+
Carbon disulphide	+	±
Carbon tetrachloride	+	±
Chlorobenzene	-	-
Chloroform	-	-
Chromic acid hydride 10%	+	+
Citric acid 10%	+	±
Cresol	-	-
Curd soap	+	+
Dibutyl phthalate	+	±
Diesel oil	+	+
Diethyl ether	+	±
Dioxan	+	-
Ethanol	+	+
Ethyl acetate	±	-
Ethyl dichloride	-	-
Ethylene glycol	+	±
Formic acid 10%	+	±
Freon 11	+	+
Frigen 113	+	+
Glacial acetic acid 10%	-	-
Glycerine	+	+
Heptane	+	+
Hexane	+	+
Hydraulic oil	+	+
Hydrochloric acid 10%	+	-
Hydrochloric acid, concentrated	-	-
Hydrofluoric acid 10%	+	+
Hydrogen peroxide 20%	+	±
Isopropyl alcohol	+	±
Kerosene	+	+

Medium	23 °C	60 °C
Linseed oil	+	+
Lubricating greases	+	+
Methanol	+	±
Methyl ethyl ketone	+	±
Methylene chloride	-	-
Mineral oils	+	+
Motor oils	+	+
Nitric acid 10%	+	±
Nitric acid, concentrated	-	-
Octane	+	+
Olive oil	+	+
Paraffin oil	+	+
Perchloroethylene	±	-
Petrol, normal and lead-free	+	+
Petrol, super	+	+
Petrol/methanol 85/15	+	+
Petroleum	+	+
Phenol 10%	-	-
Phosphoric acid 20%	+	±
Potassium chloride 10%	+	+
Potassium dichromate 10%	+	+
Potassium hydroxide 10%	-	-
Potassium permanganate 10%	+	±
Soap suds 10%	+	±
Sodium bisulphite 10%	+	+
Sodium carbonate 10%	+	+
Sodium chloride 10%	+	+
Sodium hydroxide 10%	-	-
Sulphuric acid 10%	+	±
Sulphuric acid, concentrated	-	-
Tetrahydrofuran	-	-
Toluene	±	-
Transformer oil	+	+
Trichlorethene/chloroform 1/1	±	-
Turpentine oil	+	+
Vegetable oils	+	+
Washing liquid	+	+
Washing powder, synthetic	+	+
Water	+	+
Xylol	±	-

The above values are for guidance only. A definite statement can only be made when based on the respective case in question.

+ = resistant
- = not resistant
± = partly resistant

W

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SAI-4/6/8 MH-MH BL 3.5	1724752000	E.25
SAI-4/6/8 MH-MH BL 3.5	1724752000	E.28
SAI-4/6/8 MH-MHD BL 3.5	1724753000	E.25
SAI-4/6/8 MH-MHD BL 3.5	1724753000	E.29
SAI-4/6/8 MH-MM BL 3.5	1724754000	E.27
SAI-4/6/8-MH BL3.5	1724750000	E.20
SAI-4/6/8-MH BL3.5	1724750000	E.31
SAI-4/6/8-MH BL3.5	1724750000	E.7
SAI-4/6/8-MH BL3.5 SV	1724750050	E.15
SAI-4/6/8-MH BL3.5 SV	1724750050	E.20
SAI-4/6/8-MH BL3.5 SV	1724750050	E.7
SAI-4/6/8-MH BLZF3.5	1752080000	E.20
SAI-4/6/8-MH BLZF3.5	1752080000	E.7
SAI-4/6/8-MH BLZF3.5 SV	1752080050	E.15
SAI-4/6/8-MH BLZF3.5 SV	1752080050	E.20
SAI-4/6/8-MH BLZF3.5 SV	1752080050	E.7
SAI-4/6/8-MH LEER	1783460000	E.37
SAI-4/6/8-MH LEER	1783460000	E.7
SAI-4/6/8-MHF 4P PUR 4M	1791450400	E.36
SAI-4/6/8-MHF 4P PUR 6M	1791450600	E.36
SAI-4/6/8-MHF 4P PUR 9M	1791450900	E.36
SAI-4/6/8-MHF 4P PUR14M	1791451400	E.36
SAI-4/6/8-MHF 4P PUR20M	1791452000	E.36
SAI-4/6/8-MHF 4P PUR28M	1791452800	E.36
SAI-4/6/8-MHF 4P PUR34M	1791453400	E.36
SAI-4/6/8-MHF 5P PUR 10M	1791461000	E.36
SAI-4/6/8-MHF 5P PUR 4M	1791460400	E.36
SAI-4/6/8-MHF 5P PUR 6M	1791460600	E.36
SAI-4/6/8-MHF 5P PUR 9M	1791460900	E.36
SAI-4/6/8-MHF 5P PUR14M	1791461400	E.36
SAI-4/6/8-MHF 5P PUR16M	1791461600	E.36
SAI-4/6/8-MHF 5P PUR20M	1791462000	E.36
SAI-4/6/8-MHF 5P PUR28M	1791462800	E.36
SAI-4/6/8-MHF 5P PUR34M	1791463400	E.36
SAI-4/6/8-MHF 5P PUR40M	1791464000	E.36
SAI-4/6/8-MHF 5P PUR50M	1791465000	E.36
SAI-4/6/8-MHF 5P PUR55M	1791465500	E.36
SAI-4-F 3P M8 L 10M	1828710000	E.47
SAI-4-F 3P M8 L 10M	1828710000	E.6
SAI-4-F 3P M8 L 5M	1828720000	E.47
SAI-4-F 3P M8 L 5M	1828720000	E.6
SAI-4-F 3P M8 PUR 10M	1784630000	E.42
SAI-4-F 3P M8 PUR 5M	1784640000	E.42
SAI-4-F 4P IDC PUR 10M	1766670000	E.21
SAI-4-F 4P IDC PUR 5M	1766660000	E.21
SAI-4-F 4P M12 L 10M	1070660000	E.6
SAI-4-F 4P M12 L 10M	1070660000	E.9
SAI-4-F 4P M12 L 5M	1070650000	E.6
SAI-4-F 4P M12 L 5M	1070650000	E.9
SAI-4-F 4P M8 L 10M	1849690000	E.47
SAI-4-F 4P M8 L 10M	1849690000	E.6
SAI-4-F 4P M8 L 5M	1849680000	E.47
SAI-4-F 4P M8 L 5M	1849680000	E.6
SAI-4-F 4P M8 PUR 10M	1784590000	E.42
SAI-4-F 4P M8 PUR 5M	1784600000	E.42
SAI-4-F 4P PUR 10M	9456200000	E.6
SAI-4-F 4P PUR 10M	9456200000	E.8
SAI-4-F 4P PUR 15M	9456210000	E.6
SAI-4-F 4P PUR 15M	9456210000	E.8
SAI-4-F 4P PUR 20M	9456230000	E.6
SAI-4-F 4P PUR 20M	9456230000	E.8
SAI-4-F 4P PUR 3M	9456180000	E.8
SAI-4-F 4P PUR 5M	9456190000	E.6
SAI-4-F 4P PUR 5M	9456190000	E.8
SAI-4-F 5P M12 L 10M	1070640000	E.6
SAI-4-F 5P M12 L 10M	1070640000	E.9
SAI-4-F 5P M12 L 5M	1070630000	E.6
SAI-4-F 5P M12 L 5M	1070630000	E.9
SAI-4-F 5P PUR 10M	9456340000	E.6
SAI-4-F 5P PUR 10M	9456340000	E.8
SAI-4-F 5P PUR 15M	9456350000	E.6
SAI-4-F 5P PUR 15M	9456350000	E.8
SAI-4-F 5P PUR 20M	9456370000	E.6
SAI-4-F 5P PUR 20M	9456370000	E.8
SAI-4-F 5P PUR 3M	9456320000	E.8
SAI-4-F 5P PUR 5M	9456330000	E.6
SAI-4-F 5P PUR 5M	9456330000	E.8
SAI-4-FMM-4P M12 10M	9456200002	E.25
SAI-4-FMM-4P M12 10M	9456200002	E.26
SAI-4-FMM-4P M12 10M	9456200002	E.6
SAI-4-FMM-4P M12 5M	9456190002	E.25
SAI-4-FMM-4P M12 5M	9456190002	E.26
SAI-4-FMM-4P M12 5M	9456190002	E.6
SAI-4-M 3P IDC	1760040000	E.20
SAI-4-M 3P IDC UT	1760041000	E.20
SAI-4-M 3P M8	1784680000	E.42
SAI-4-M 4P Exi Z1 IL	1868360000	E.49
SAI-4-M 4P Exi Z1 OL	1868350000	E.49
SAI-4-M 4P IDC	1766780000	E.20
SAI-4-M 4P IDC UT	1766781000	E.20
SAI-4-M 4P M12	1705920000	E.6
SAI-4-M 4P M12	1705920000	E.7
SAI-4-M 4P M8	1784700000	E.42
SAI-4-M 5P M12	1701230000	E.6
SAI-4-M 5P M12	1701230000	E.7
SAI-4-M 5P M12 1:1	1806010000	E.30
SAI-4-M 5P M12 1:1 UT	1806011000	E.30
SAI-4-M 5P M12 ECO	1892100000	E.15
SAI-4-M 5P M12 ECO UT	1892101000	E.15
SAI-4-M 5P M12 Ex ia	1896050000	E.49
SAI-4-M 5P M12 NPN ECO	1892100005	E.15
SAI-4-M 5P M12 OL	1800000000	E.7
SAI-4-M 5P M12 OL UT	1800001000	E.7
SAI-4-M 5P M12 UT	1701231000	E.36
SAI-4-M 5P M12 UT	1701231000	E.7
SAI-4-M 5P M12 ZF	1854000000	E.7
SAI-4-M 8P M12	1807640000	E.31
SAI-4-M 8P M12 UT	1807641000	E.31
SAI-4-M23 4P M8	1784660000	E.43
SAI-4-M23 4P M8	1784660000	L.39
SAI-4-MF 5P PUR 10M	1804580000	E.36
SAI-4-MF 5P PUR 5M	1804600000	E.36
SAI-4-MH-4P M12	1705922000	E.25
SAI-4-MH-4P M12	1705922000	E.28
SAI-4-MH-5P M12	1701232000	E.25
SAI-4-MH-5P M12	1701232000	E.28
SAI-4-MHD-4P M12	1705923000	E.25
SAI-4-MHD-4P M12	1705923000	E.29
SAI-4-MM 5P M12	1783500000	E.25
SAI-4-MM 5P M12	1783500000	E.27
SAI-4-MM 5P M12	1783500000	E.6
SAI-4-MMS 4P M12	1783540000	E.25
SAI-4-MMS 4P M12	1783540000	E.27
SAI-4-MMS 4P M12	1783540000	E.6
SAI-4-MMS 5P M12	1783520000	E.25
SAI-4-MMS 5P M12	1783520000	E.27
SAI-4-MMS 5P M12	1783520000	E.6
SAI-4-MMS 5P M12 1:1	1897680000	E.30
SAI-4-M-MVV-M12 1:1	2009620000	D.31
SAI-4-M-MVV-M12 S-COD	1542580000	D.30
SAI-4-M-SVV-M12	1431490000	D.28
SAI-4-S 3P M8 L	1828740000	E.44
SAI-4-S 3P M8 L	1828740000	E.6
SAI-4-S 3P M8 L OL	1051760000	E.44
SAI-4-S 4P FC 1993	1847960000	E.16
SAI-4-S 4P FC 1993	1847960000	L.37
SAI-4-S 4P M12	9456000000	E.6
SAI-4-S 5P FC	1847970000	E.16
SAI-4-S 5P FC	1847970000	L.37
SAI-4-S 5P M12	9456000001	E.6
SAI-4-S12 M8 L 1:1	1449400000	E.45
SAI-4-S-3P-M8L-M12-2AND	2512800000	F.4
SAI-4-S-3P-M8L-M12-LOG	2512390000	F.5
SAI-4-S8 4P M12 L	1267330000	E.11
SAI-4-S8 4P M12 L	1267330000	E.6
SAI-4-SVV-GM-RM-M12	2495280000	D.29
SAI-6-F 3P M8 L 10M	1828690000	E.47
SAI-6-F 3P M8 L 10M	1828690000	E.6
SAI-6-F 3P M8 L 5M	1828700000	E.47
SAI-6-F 3P M8 L 5M	1828700000	E.6
SAI-6-F 4P IDC PUR 10M	1766690000	E.21
SAI-6-F 4P IDC PUR 5M	1766680000	E.21
SAI-6-F 4P M12 L 10M	1265930000	E.10
SAI-6-F 4P M12 L 10M	1265930000	E.6
SAI-6-F 4P M12 L 5M	1265920000	E.10
SAI-6-F 4P M12 L 5M	1265920000	E.6
SAI-6-F 4P M8 L 10M	1849670000	E.47
SAI-6-F 4P M8 L 10M	1849670000	E.6
SAI-6-F 4P M8 L 5M	1849700000	E.47
SAI-6-F 4P M8 L 5M	1849700000	E.6
SAI-6-F 4P PUR 10M	9456480000	E.6
SAI-6-F 4P PUR 10M	9456480000	E.8
SAI-6-F 4P PUR 15M	9456490000	E.6
SAI-6-F 4P PUR 15M	9456490000	E.8
SAI-6-F 4P PUR 20M	9456510000	E.6
SAI-6-F 4P PUR 20M	9456510000	E.8
SAI-6-F 4P PUR 3M	9456460000	E.8
SAI-6-F 4P PUR 5M	9456470000	E.6
SAI-6-F 4P PUR 5M	9456470000	E.8
SAI-6-F 5P PUR 10M	9456620000	E.6
SAI-6-F 5P PUR 10M	9456620000	E.8
SAI-6-F 5P PUR 15M	9456630000	E.6
SAI-6-F 5P PUR 15M	9456630000	E.8
SAI-6-F 5P PUR 20M	9456650000	E.6
SAI-6-F 5P PUR 20M	9456650000	E.8
SAI-6-F 5P PUR 3M	9456600000	E.8
SAI-6-F 5P PUR 5M	9456610000	E.6
SAI-6-F 5P PUR 5M	9456610000	E.8
SAI-6-M 3P IDC	1760050000	E.20
SAI-6-M 4P IDC	1766790000	E.20
SAI-6-M 4P IDC UT	1766791000	E.20
SAI-6-M 4P M12	1705930000	E.6
SAI-6-M 4P M12	1705930000	E.7
SAI-6-M 4P M12 UT	1705931000	E.36
SAI-6-M 4P M12 UT	1705931000	E.7
SAI-6-M 5P M12	1701240000	E.6
SAI-6-M 5P M12	1701240000	E.7
SAI-6-M 5P M12 ECO	1892090000	E.15
SAI-6-M 5P M12 ECO UT	1892091000	E.15
SAI-6-M 5P M12 Ex ia	1896070000	E.49
SAI-6-M 5P M12 UT	1701241000	E.36
SAI-6-M 5P M12 UT	1701241000	E.7
SAI-6-MH-4P M12	1705932000	E.25
SAI-6-MH-4P M12	1705932000	E.28
SAI-6-MH-5P M12	1701242000	E.25
SAI-6-MH-5P M12	1701242000	E.28
SAI-6-M-MVV-M12 S-COD	2085620000	D.32
SAI-6-S 3P M8 L	1828730000	E.44
SAI-6-S 3P M8 L	1828730000	E.6
SAI-6-S 3P M8 L OL	1932380000	E.44
SAI-6-S 3P M8 L SL	1057720000	E.46
SAI-6-S 3P M8 L SL	1057720000	E.6
SAI-6-S 4P M12	9456010000	E.6
SAI-6-S 5P M12	9456010001	E.6
SAI-6-S12 4P M12 L	1265940000	E.11
SAI-6-S12 4P M12 L	1265940000	E.6
SAI-8-B 4P M12 F10	1812170000	E.35
SAI-8-B 5P M12 SL	1847560000	E.33
SAI-8-F 3P IDC PUR 10M	1766770000	E.21
SAI-8-F 3P M8 L 10M	1828670000	E.47
SAI-8-F 3P M8 L 10M	1828670000	E.6
SAI-8-F 3P M8 L 5M	1828680000	E.47
SAI-8-F 3P M8 L 5M	1828680000	E.6
SAI-8-F 3P M8 PUR 10M	1784610000	E.42
SAI-8-F 3P M8 PUR 5M	1784620000	E.42
SAI-8-F 4P IDC PUR 10M	1766710000	E.21
SAI-8-F 4P IDC PUR 5M	1766700000	E.21
SAI-8-F 4P M8 L 10M	1828610000	E.47
SAI-8-F 4P M8 L 10M	1828610000	E.6
SAI-8-F 4P M8 L 5M	1828620000	E.47
SAI-8-F 4P M8 L 5M	1828620000	E.6
SAI-8-F 4P M8 PUR 10M	1784570000	E.42
SAI-8-F 4P M8 PUR 5M	1784580000	E.42
SAI-8-F 4P PUR 10M	9456760000	E.6
SAI-8-F 4P PUR 10M	9456760000	E.8
SAI-8-F 4P PUR 15M	9456770000	E.6
SAI-8-F 4P PUR 15M	9456770000	E.8
SAI-8-F 4P PUR 20M	9456790000	E.6
SAI-8-F 4P PUR 20M	9456790000	E.8
SAI-8-F 4P PUR 3M	9456740000	E.8
SAI-8-F 4P PUR 5M	9456750000	E.6
SAI-8-F 4P PUR 5M	9456750000	E.8
SAI-8-F 5P 10M 0.5/1.0U	9457600000	E.8
SAI-8-F 5P 15M 0.5/1.0U	1784510000	E.8
SAI-8-F 5P 20M 0.5/1.0U	1784500000	E.8
SAI-8-F 5P 2M 0.5/1.0U	7915030000	E.8
SAI-8-F 5P 5M 0.5/1.0U	9457590000	E.8
SAI-8-F 5P M12 5M VA	1865310000	E.22
SAI-8-F 5P NPN-PNP 5M	1814990000	E.32
SAI-8-F 5P PUR 10M	9456900000	E.6
SAI-8-F 5P PUR 10M	9456900000	E.8
SAI-8-F 5P PUR 15M	9456910000	E.6
SAI-8-F 5P PUR 15M	9456910000	E.8
SAI-8-F 5P PUR 20M	9456930000	E.6
SAI-8-F 5P PUR 20M	9456930000	E.8
SAI-8-F 5P PUR 3M	9456880000	E.8
SAI-8-F 5P PUR 5M	9456890000	E.6
SAI-8-F 5P PUR 5M	9456890000	E.8
SAI-8-FMM-4P M12 10M	9456760002	E.25
SAI-8-FMM-4P M12 10M	9456760002	E.26
SAI-8-FMM-4P M12 10M	9456760002	E.6
SAI-8-FMM-4P M12 5M	9456750002	E.25
SAI-8-FMM-4P M12 5M	9456750002	E.26
SAI-8-FMM-4P M12 5M	9456750002	E.6
SAI-8-M 3P IDC	1760060000	E.20
SAI-8-M 3P IDC UT	1760061000	E.20
SAI-8-M 3P M8	1784670000	E.42
SAI-8-M 4P Exi Z1 IL	1868370000	E.49
SAI-8-M 4P Exi Z1 OL	1894380000	E.49
SAI-8-M 4P IDC	1766800000	E.20
SAI-8-M 4P IDC UT	1766801000	E.20
SAI-8-M 4P M12	1705940000	E.6
SAI-8-M 4P M12	1705940000	E.7
SAI-8-M 4P M12 UT	1705941000	E.36
SAI-8-M 4P M12 UT	1705941000	E.7
SAI-8-M 4P M8	1784690000	E.42
SAI-8-M 5P M12	1701250000	E.6
SAI-8-M 5P M12	1701250000	E.7
SAI-8-M 5P M12 ECO	1892080000	E.15
SAI-8-M 5P M12 ECO UT	1892081000	E.15
SAI-8-M 5P M12 Ex ia	1896090000	E.49
SAI-8-M 5P M12 NPN	1781060000	E.7
SAI-8-M 5P M12 NPN ECO	1892080005	E.15
SAI-8-M 5P M12 OL	1740190000	E.7
SAI-8-M 5P M12 OL UT	1740191000	E.7
SAI-8-M 5P M12 OL2	1816610000	E.7
SAI-8-M 5P M12 UT	1701251000	E.36
SAI-8-M 5P M12 UT	1701251000	E.7
SAI-8-M 5P M12 ZF III	1767880000	E.7
SAI-8-M16 3P M8	1795900000	E.43
SAI-8-M16 4P M12	1831020000	E.12
SAI-8-M23 4P M8	1784650000	E.43
SAI-8-M23 4P M8	1784650000	L.39
SAI-8-M-4P M12 DIP	1059430000	E.13
SAI-8-MF 4P PUR 10M M12	1789190000	E.36
SAI-8-MF 4P PUR 5M M12	1799960000	E.36
SAI-8-MF 5P PUR 10m	9457430000	E.36
SAI-8-MF 5P PUR 5M	1804590000	E.36
SAI-8-MH-4P M12	1705942000	E.25
SAI-8-MH-4P M12	1705942000	E.28
SAI-8-MH-5P M12	1701252000	E.25
SAI-8-MH-5P M12	1701252000	E.28
SAI-8-MH-5P M12 ZF III	1782760000	E.25
SAI-8-MH-5P M12 ZF III	1782760000	E.28
SAI-8-MHD-4P M12	1705943000	E.25
SAI-8-MHD-4P M12	1705943000	E.29
SAI-8-MHD-5P M12	1701253000	E.25
SAI-8-MHD-5P M12	1701253000	E.29
SAI-8-MM 5P M12	1783490000	E.25
SAI-8-MM 5P M12	1783490000	E.27
SAI-8-MM 5P M12	1783490000	E.6
SAI-8-MM 5P M12 UT	1783491000	E.27
SAI-8-MMH 5P M12 ZF	1782740000	E.25
SAI-8-MMH 5P M12 ZF	1782740000	E.27
SAI-8-MMS 4P M12	1783530000	E.25
SAI-8-MMS 4P M12	1783530000	E.27
SAI-8-MMS 4P M12	1783530000	E.6
SAI-8-MMS 5P M12	1783510000	E.25
SAI-8-MMS 5P M12	1783510000	E.27
SAI-8-MMS 5P M12	1783510000	E.6
SAI-8-S 4P FC	1847920000	E.16
SAI-8-S 4P FC	1847920000	L.37
SAI-8-S 4P M12	9456020000	E.6
SAI-8-S 5P FC	1848040000	E.16
SAI-8-S 5P FC	1848040000	L.37
SAI-8-S 5P M12	1795470000	E.6
SAI-8-S12 3P M8 L	1871680000	E.44
SAI-8-S12 3P M8 L	1871680000	E.6
SAI-8-S12 3P M8 L OL	1116330000	E.44
SAI-8-S-3P-M8L-M12-2AND	2512820000	F.4
SAI-8-S-3P-M8L-M12-LOG	2512810000	F.5
SAI-8-SH 4P FC	1859120000	E.17
SAI-8-SH 4P FC	1859120000	L.38
SAI-8-SH 5P FC	1859140000	E.17
SAI-8-SH 5P FC	1859140000	L.38
SAI-ADAPTER-M8/M8-3P/4P	1288000000	C.44
SAI-ADAPT-M12/M8 3P	1990550000	C.44
SAI-ADAPT-M12/M8 4P	1990560000	C.44
SAI-ADAPT-M8/M12 3P	1473460000	C.44
SAI-ADAPT-M8/M12 4P	1990540000	C.44
SAI-ADAPT-M8/M8 4/3P	1990570000	C.44
SAI-ASI T FF small	1026090000	M.55
SAI-ASI T FFR	1924980000	M.55
SAI-ASI T FR	1925010000	M.54
SAI-AU ET SET M12 A COD	1235340000	J.13
SAI-AU ET SET M12 A COD	1235340000	J.7
SAIB 5/9-VA	1920710000	C.25
SAIB 5/9-VA	1920710000	E.23
SAIB 5/9-VA	1920710000	M.32
SAIB 5/9-VA-B-COD	1920730000	C.25
SAIB 5/9-VA-B-COD	1920730000	E.23
SAIB 5/9-VA-B-COD	1920730000	M.10
SAIB-12/9-(TL)	1924960000	C.18
SAIB-12/9-(TL)	1924960000	C.5
SAIB-2-IDC-M12B-COD	1864740000	C.31
SAIB-2-IDC-M12B-COD	1864740000	M.12
SAIB-3/11-7/8	1291920000	K.7
SAIB-3/7	1021490000	C.5
SAIB-3/7	1021490000	C.7
SAIB-3/9	1021510000	C.5
SAIB-3/9	1021510000	C.7
SAIB-3/9-7/8	1291910000	K.6
SAIB-3+PE/11-S-COD	1392000000	D.15
SAIB-3-4-5-IDC(0.75)M12	1852730000	C.30
SAIB-3-4-5-IDC(0.75)M12	1852730000	C.5
SAIB-3-IDC-M8 SMALL	1784030001	C.33
SAIB-3-IDC-M8 SMALL	1784030001	C.6
SAIB-4/11-1.5	1353730000	D.14
SAIB-4/11-7/8	1292050000	K.7
SAIB-4/11-T-COD	1391980000	D.16
SAIB-4/7	9457240000	C.5
SAIB-4/7	9457240000	C.7
SAIB-4/7-(KV)	1921080000	C.10
SAIB-4/9	1807230000	C.5
SAIB-4/9	1807230000	C.7
SAIB-4/9-7/8	1812480000	K.6
SAIB-4/9-7/8	1812480000	M.82
SAIB-4-IDC (0,75) M12	1852750000	C.30
SAIB-4-IDC M12	1781540000	C.29
SAIB-4-IDC-M12 SMALL	1781540001	C.29
SAIB-4-IDC-M12 SMALL	1781540001	C.5
SAIB-4-IDC-M8 small	1784050001	C.33
SAIB-4-IDC-M8 small	1784050001	C.6
SAIB-5/11-1.5	1353750000	D.14
SAIB-5/11-7/8	1292010000	K.7
SAIB-5/7	9457250000	C.5
SAIB-5/7	9457250000	C.8
SAIB-5/7-(KV)	1921070000	C.10
SAIB-5/7-ZF	1924970000	C.24
SAIB-5/7-ZF	1924970000	C.5
SAIB-5/9	1807250000	C.5
SAIB-5/9	1807250000	C.8
SAIB-5/9-(KV)	1007090000	C.10
SAIB-5/9-7/8	1292000000	K.6
SAIB-5/9-ZF	1044710000	C.24
SAIB-8/9	1836960000	C.5
SAIB-8/9	1836960000	C.8
SAIBC-5-18/28-4/9CG	2664800000	C.34
SAIBC-D-18/28-4/9CG	2672420000	C.35
SAIBC-D-PN-6.5-C5	1380620000	C.37
SAIBC-D-PN-6.5-C5	1380620000	M.79
SAIBC-D-RR-6.6-C5	1380570000	C.37
SAIBC-D-RR-6.6-C5	1380570000	M.79
SAIBC-D-RR-7.3-C5	1380550000	C.37
SAIBC-D-RR-7.3-C5	1380550000	M.79
SAIBC-D-RR-8.3-C5	1380590000	C.37

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SAIBC-M-5S-M12-L-COD	2525620000	D.18
SAIBC-WDF-D-18/28-4/9CG	2664780000	C.35
SAIBC-WDF-D-PN-6.5-C5	1380670000	C.38
SAIBC-WDF-D-PN-6.5-C5	1380670000	M.80
SAIBC-WDF-D-RR-6.6-C5	1380640000	C.38
SAIBC-WDF-D-RR-6.6-C5	1380640000	M.80
SAIBC-WDF-D-RR-7.3-C5	1380630000	C.38
SAIBC-WDF-D-RR-7.3-C5	1380630000	M.80
SAIBC-WDF-D-RR-8.3-C5	1380650000	C.38
SAIBC-WDF-D-RR-8.3-C5	1380650000	M.80
SAIBM 5/8S M12 5P B-COD	1784780000	C.13
SAIBM 5/8S M12 5P B-COD	1784780000	C.5
SAIBM 5/8S M12 5P B-COD	1784780000	M.11
SAIB-M16-12/9	1548830000	C.39
SAIB-M16-16/9	1548840000	C.39
SAIB-M16-2/9	1321690000	C.39
SAIB-M16-4/9	1117960000	C.39
SAIB-M16-5/9	1117980000	C.39
SAIB-M16-6/9	1304400000	C.39
SAIB-M16-7/9	1118000000	C.39
SAIB-M16-8/9	1304450000	C.39
SAIB-M23-12P-AN-1,0M	1877440100	L.36
SAIB-M23-12P-ST-1,0M	1886440100	L.36
SAIB-M23-19P-AN-1,0M	1818140100	L.36
SAIB-M23-19P-ST-1,0M	1818180100	L.36
SAIBM-3/9S-M8	1467560000	C.16
SAIBM-4/8S-M12 4P A-ZF	1784740002	C.5
SAIBM-4/8S-M12 4P D-ZF	1892130001	C.26
SAIBM-4/8S-M12 4P D-ZF	1892130001	C.5
SAIBM-4/8S-M12-4P D-COD	1892130000	C.14
SAIBM-4/8S-M12-4P D-COD	1892130000	C.5
SAIBM-4/8S-M12-4P D-COD	1892130000	M.76
SAIBM-4/9S-M8	1467580000	C.16
SAIBM-5/6S M12 5P A-COD	1191020000	C.11
SAIBM-5/6S M12 5P A-COD	1191020000	C.5
SAIBM-5/6S M12 5P A-COD	1191020000	M.31
SAIB-M-5/8S M12 5P A-COD	1784750000	C.11
SAIB-M-5/8S M12 5P A-COD	1784750000	C.5
SAIB-M-5/8S M12 5P A-COD	1784750000	M.31
SAIB-M-5/8S M12 5P A-COD	1784750000	M.60
SAIB-M-5S-IDC-M12-L-COD	2530760000	D.17
SAIBM-8/11S-M12	1118920000	C.12
SAIBM-8/9S-M12	1258930000	C.12
SAIB-M8-3P	1803870000	C.15
SAIB-M8-3P	1803870000	C.6
SAIB-M8-4P	1803880000	C.15
SAIB-M8-4P	1803880000	C.6
SAIBM-M8-3P-(IF)	1010080000	C.17
SAIBM-M8-3P-(IF)	1010080000	C.6
SAIBM-M8-3P(TL)	1921010000	C.19
SAIBM-M8-3P(TL)	1921010000	C.6
SAIBM-M8-4P-(IF)	1010090000	C.17
SAIBM-M8-4P-(IF)	1010090000	C.6
SAIBM-M8-4P(TL)	1921020000	C.19
SAIBM-M8-4P(TL)	1921020000	C.6
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SAIBP-M-4A-4/8-M12	2681540000	C.22
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SAIB-VSA-3P/230/11-H/0B	1873150000	C.61
SAIB-VSA-3P/230/9/LD	1873110000	C.62
SAIB-VSA-3P/230/9-H/0B	1873130000	C.61
SAIB-VSA-3P/24/9/LD	1873120000	C.62
SAIB-VSA-3P/250/11-0B	1873090000	C.61
SAIB-VSA-3P/250/9-0B	1873070000	C.61
SAIB-VSA-4P/230/11-H/0B	1873160000	C.61
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SAIB-VSA-4P/250/11-0B	1873100000	C.61
SAIB-VSA-4P/250/9-0B	1873080000	C.61
SAIB-VSB-3P/24/9/LD	1873180000	C.63
SAIB-VSB-3P/250/9-0B	1873170000	C.63
SAIB-VSBD-3P/250/9-0B	1873190000	C.64
SAIB-VSC-3P/250/7-0B	1873200000	C.65
SAIB-VSC-4P/250/7-0B	1873210000	C.65
SAIB-VSCD-3P/250/7-0B	1873220000	C.65
SAIB-VSCD-4P/250/7-0B	1873230000	C.65
SAIBW-12/9-(TL)	1925870000	C.18
SAIBW-3/11-7/8	1291940000	K.7
SAIBW-3/7	1021310000	C.5
SAIBW-3/7	1021310000	C.7
SAIBW-3/9	1021320000	C.7
SAIBW-3/9-7/8	1291930000	K.6
SAIBW-3+PE/11-S-COD	1467870000	D.15
SAIBW-4/11-1.5	1467670000	D.14
SAIBW-4/11-7/8	1292070000	K.7
SAIBW-4/11-T-COD	1467890000	D.16
SAIBW-4/7	9457700000	C.5
SAIBW-4/7	9457700000	C.7
SAIBW-4/7-(KV)	1935610000	C.10
SAIBW-4/8S-M12 4P D-ZF	1139330000	C.26
SAIBW-4/8S-M12 4P D-ZF	1139330000	C.5
SAIBW-4/9	1807240000	C.5
SAIBW-4/9	1807240000	C.7
SAIBW-4/9-7/8	1812470000	K.6
SAIBW-4/9-7/8	1812470000	M.82
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SAIBW-5/7	9457260000	C.5
SAIBW-5/7	9457260000	C.8
SAIBW-5/7-(KV)	1962630000	C.10
SAIBW-5/8S-M12 5P A-ZF	1275750000	C.5
SAIBW-5/9	1807330000	C.5
SAIBW-5/9	1807330000	C.8
SAIBW-5/9-(KV)	1007070000	C.10
SAIBW-5/9-7/8	1292020000	K.6
SAIBW-8/9-M12	1934890000	C.5
SAIBW-8/9-M12	1934890000	C.8
SAIBWC-5-18/28-4/9CG	2664830000	C.34
SAIB-WDF-3+PE-M20-S-COD	1460300000	D.21
SAIB-WDF-4-M20	1383050000	D.20
SAIB-WDF-4-M20-T-COD	1392720000	D.21
SAIB-WDF-5-M20	1383070000	D.20
SAIB-WDF-8-M20	1383080000	D.20
SAIBW-M-4/8 M12	1803910000	C.11
SAIBW-M-4/8 M12	1803910000	C.5
SAIBW-M-4/8 M12	1803910000	M.31
SAIBW-M-5/8 M12	1803920000	C.11
SAIBW-M-5/8 M12	1803920000	C.5
SAIBW-M-5/8 M12	1803920000	M.31
SAIBW-M-5/8 M12	1803920000	M.60
SAIBW-M-5/8 M12 B-COD	1944580000	C.13
SAIBW-M-5/8 M12 B-COD	1944580000	C.5
SAIBW-M-5/8 M12 B-COD	1944580000	M.11
SAIBW-M8-3P(TL)	1920970000	C.20
SAIBW-M8-3P(TL)	1920970000	C.6
SAIBW-M8-4P(TL)	1920980000	C.20
SAIBW-M8-4P(TL)	1920980000	C.6
SAIBWP-4A-4/8-M12	2681510000	C.21
SAIBWP-5A-4/8-M12	2681590000	C.21
SAIBWP-M-4A-4/8-M12	2681550000	C.22
SAIBWP-M-4D-4/8-M12	2681710000	C.23
SAIBWP-M-5A-4/8-M12	2681630000	C.22
SAIBWP-M-5B-4/8-M12	2681670000	C.23
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SAI-CEH080	1381730000	N.12
SAI-CEH090	1381740000	N.12
SAI-CEH095	1381750000	N.12
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SAID-M12B-4-9SMT-TR	2422090000	I.40
SAID-M12B-4S-9SMT	2422180000	I.39
SAID-M12B-4S-9SMT	2422180000	I.5
SAID-M12B-4S-9SMT-TR	2422210000	I.40
SAID-M12B-5-9SMT	2422120000	I.39
SAID-M12B-5-9SMT	2422120000	I.5
SAID-M12B-5-9SMT-TR	2422150000	I.40
SAID-M12B-5S-9SMT	2422240000	I.39
SAID-M12B-5S-9SMT	2422240000	I.5
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SAID-M12B-8-9SMT-TR	2422510000	I.40
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SAID-M12B-8S-9SMT	2423380000	I.5
SAID-M12B-8S-9SMT-TR	2423410000	I.40
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SAID-M12BB-4S-9SMT	2422840000	I.5
SAID-M12BB-4S-9SMT-TR	2422870000	I.42
SAID-M12BB-5S-9SMT	2422900000	I.41
SAID-M12BB-5S-9SMT	2422900000	I.5
SAID-M12BB-5S-9SMT-TR	2422930000	I.42
SAID-M12BD-4S-9SMT	2422960000	I.41
SAID-M12BD-4S-9SMT	2422960000	I.5
SAID-M12BD-4S-9SMT-TR	2422990000	I.42
SAID-M12BL-5-SMT	2530820000	D.26
SAID-M12S-4-9SMT	2422540000	I.39
SAID-M12S-4-9SMT	2422540000	I.5
SAID-M12S-4-9SMT-TR	2422570000	I.40
SAID-M12S-4S-9SMT	2423500000	I.39
SAID-M12S-4S-9SMT	2423500000	I.5
SAID-M12S-4S-9SMT-TR	2423530000	I.40
SAID-M12S-5-9SMT	2422600000	I.39
SAID-M12S-5-9SMT	2422600000	I.5
SAID-M12S-5-9SMT-TR	2422630000	I.40
SAID-M12S-5S-9SMT	2423560000	I.39
SAID-M12S-5S-9SMT-TR	2423590000	I.40
SAID-M12S-8-9SMT	2422420000	I.39
SAID-M12S-8-9SMT	2422420000	I.5
SAID-M12S-8-9SMT-TR	2422450000	I.40
SAID-M12S-8S-9SMT	2423620000	I.39
SAID-M12S-8S-9SMT	2423620000	I.5
SAID-M12S-8S-9SMT-TR	2423650000	I.40
SAID-M12SB-4S-9SMT	2422720000	I.41
SAID-M12SB-4S-9SMT	2422720000	I.5
SAID-M12SB-4S-9SMT-TR	2422750000	I.42
SAID-M12SB-5S-9SMT	2422780000	I.41
SAID-M12SB-5S-9SMT	2422780000	I.5
SAID-M12SB-5S-9SMT-TR	2422810000	I.42
SAID-M12SL-5-SMT	2530810000	D.26
SAID-M8B-3-SMT	2421720000	I.17
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SAID-M8B-3S-SMT	2421780000	I.17
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SAID-M8B-4-SMT	2421840000	I.4
SAID-M8B-4S-SMT	2421900000	I.17
SAID-M8B-4S-SMT	2421900000	I.4
SAID-M8B-4S-THR	2423940000	I.13
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SAID-M8B-5-SMT	2421960000	I.4
SAID-M8B-5S-SMT	2422020000	I.17
SAID-M8B-5S-SMT	2422020000	I.4
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SAID-M8B-5-THR	2424000000	I.13
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SAID-M8B-8-SMT	2422080000	I.4
SAID-M8B-8S-SMT	2422140000	I.17
SAID-M8B-8S-SMT	2422140000	I.4
SAID-M8B-8S-THR	2424190000	I.13
SAID-M8B-8-THR	2424130000	I.13
SAID-M8S-3-SMT	2421750000	I.17
SAID-M8S-3-SMT	2421750000	I.4
SAID-M8S-3S-SMT	2421810000	I.17
SAID-M8S-3S-SMT	2421810000	I.4
SAID-M8S-3S-THR	2423850000	I.13
SAID-M8S-3-THR	2423790000	I.13
SAID-M8S-4-SMT	2421870000	I.17
SAID-M8S-4-SMT	2421870000	I.4
SAID-M8S-4S-SMT	2421930000	I.17
SAID-M8S-4S-SMT	2421930000	I.4
SAID-M8S-4S-THR	2423970000	I.13
SAID-M8S-4-THR	2423910000	I.13
SAID-M8S-5-SMT	2421990000	I.17
SAID-M8S-5-SMT	2421990000	I.4
SAID-M8S-5S-SMT	2422050000	I.17
SAID-M8S-5S-SMT	2422050000	I.4
SAID-M8S-5S-THR	2424090000	I.13
SAID-M8S-5-THR	2424030000	I.13
SAID-M8S-8-SMT	2422110000	I.17
SAID-M8S-8-SMT	2422110000	I.4
SAID-M8S-8S-SMT	2422170000	I.17
SAID-M8S-8S-SMT	2422170000	I.4
SAID-M8S-8S-THR	2424220000	I.13
SAID-M8S-8-THR	2424150000	I.13
SAIE-7/8B-3-0.2U-H	1292390000	K.8
SAIE-7/8-B-3-0.2U-M20	1471510000	K.11
SAIE-7/8B-3-0.2U-PG11	1292370000	K.9
SAIE-7/8B-3-0.2U-PG13.5	1292380000	K.10
SAIE-7/8B-4-0.2U-H	1292450000	K.8
SAIE-7/8-B-4-0.2U-M20	1471520000	K.11
SAIE-7/8B-4-0.2U-PG11	1292430000	K.9
SAIE-7/8B-4-0.2U-PG13.5	1292440000	K.10
SAIE-7/8B-5-0.2U-H	1292520000	K.8
SAIE-7/8B-5-0.2U-PG11	1292500000	K.9
SAIE-7/8B-5-0.2U-PG13.5	1292510000	K.10
SAIE-7/8S-3-0.2U-H	1292350000	K.8
SAIE-7/8S-3-0.2U-M20	1418040000	K.11
SAIE-7/8S-3-0.2U-PG11	1292330000	K.9
SAIE-7/8S-3-0.2U-PG13.5	1292340000	K.10
SAIE-7/8S-4-0.2U-H	1292420000	K.8
SAIE-7/8S-4-0.2U-M20	1418050000	K.11
SAIE-7/8S-4-0.2U-PG11	1292400000	K.9
SAIE-7/8S-4-0.2U-PG13.5	1292410000	K.10
SAIE-7/8S-5-0.2-PG11	1292470000	K.9
SAIE-7/8S-5-0.2U-H	1292490000	K.8
SAIE-7/8-S-5-0.2U-M20	1471490000	K.11
SAIE-7/8S-5-0.2U-PG13.5	1292480000	K.10
SAIE-EW-M20/PG9-SW24-VA	1950270000	M.33
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SAIE-KMM10X1-SW12	2424560000	I.4
SAIE-KMM12X1-SW14	2424570000	I.21
SAIE-KMM12X1-SW14	2424570000	I.4
SAIE-KMM14X1-SW15	2424010000	I.44
SAIE-KMM14X1-SW15	2424010000	I.5
SAIE-M12B-12-0.5U-FP-M16	1289140000	C.49
SAIE-M12B-12S-TL-HW-PG9	1467810000	C.57
SAIE-M12B-3+PE-S-0.2U-M16	1467940000	D.23
SAIE-M12B-3+PE-S-0.5U-M16	1460310000	D.23
SAIE-M12B-4-0.2U P9 .75	1353780000	D.22
SAIE-M12B-4-0.5U-FP-M16	1861190000	C.49
SAIE-M12B-4-0.5U-M16	1861120000	C.49
SAIE-M12B-4-0.5U-PG9	1861250000	C.50
SAIE-M12B-4-13/14SMT	2423020000	I.36
SAIE-M12B-4-9SMT	2422300000	I.36
SAIE-M12B-4B-H12TL-M16	2422340000	I.24
SAIE-M12B-4B-H5.5TL-M16	2422310000	I.24
SAIE-M12B-4D-H12TL-M16	2422280000	I.24
SAIE-M12B-4D-H5.5TL-M16	2422430000	I.24
SAIE-M12B-4-F10TL	2422460000	I.28
SAIE-M12B-4-F5.5TL	2422940000	I.27
SAIE-M12B-4-H10TL	2422700000	I.28
SAIE-M12B-4-H12TL-M16	2421660000	I.22
SAIE-M12B-4-H12TL-PG9	2421950000	I.23
SAIE-M12B-4-H5.5TL	2423180000	I.27
SAIE-M12B-4-H5.5TL-M16	2421600000	I.22
SAIE-M12B-4-H5.5TL-PG9	2421920000	I.23
SAIE-M12B-4S-13/14SMT	2423110000	I.37
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SAIE-M12B-4S-H6.75TL	2421880000	I.26
SAIE-M12B-4S-TL-HW-PG9	1467770000	C.57
SAIE-M12B-4-T-0.2U-M16	1467960000	D.23
SAIE-M12B-4-T-0.5U-M16	1460330000	D.23
SAIE-M12B-5-0.2U P9 .75	1353800000	D.22
SAIE-M12B-5-0.5U-FP-M16	1856110000	C.49
SAIE-M12B-5-0.5U-M16	1836910000	C.49
SAIE-M12B-5-0.5U-PG9	1814890000	C.50
SAIE-M12B-5-13/14SMT	2423050000	I.36
SAIE-M12B-5-9SMT	2422330000	I.36
SAIE-M12B-5-F10TL	2422520000	I.28
SAIE-M12B-5-F5.5TL	2423000000	I.27
SAIE-M12B-5-H10TL	2422760000	I.28
SAIE-M12B-5-H12TL-M16	2421680000	I.22
SAIE-M12B-5-H12TL-PG9	2422010000	I.23
SAIE-M12B-5-H5.5TL	2423240000	I.27
SAIE-M12B-5-H5.5TL-M16	2421620000	I.22
SAIE-M12B-5-H5.5TL-PG9	2421980000	I.23
SAIE-M12B-5S0.5U HW	1222270050	C.55
SAIE-M12B-5S-13/14SMT	2423140000	I.37
SAIE-M12B-5S2.0U HW	1222270000	C.55
SAIE-M12B-5S-9SMT	2422390000	I.37
SAIE-M12B-5S-F10TL	2422550000	I.33
SAIE-M12B-5S-F5.5TL	2423030000	I.32
SAIE-M12B-5S-H10TL	2422790000	I.33
SAIE-M12B-5S-H5.5TL	2423270000	I.32
SAIE-M12B-5S-H6.75TL	2421910000	I.26
SAIE-M12B-5S-TL-HW-PG9	1467780000	C.57
SAIE-M12B-5-TL	1312970000	C.56
SAIE-M12B-8-0.5U-M16	1861140000	C.49
SAIE-M12B-8-0.5U-FP-M16	1861210000	C.49
SAIE-M12B-8-0.5U-PG9	1861270000	C.50
SAIE-M12B-8-13/14SMT	2423080000	I.36
SAIE-M12B-8-9/14SMT	2423440000	I.36
SAIE-M12B-8-F10TL	2421760000	I.28
SAIE-M12B-8-H10TL	2421820000	I.28
SAIE-M12B-8-H12TL-M16	2421710000	I.22
SAIE-M12B-8-H12TL-PG9	2422070000	I.23
SAIE-M12B-8-H5.5TL-M16	2421640000	I.22
SAIE-M12B-8-H5.5TL-PG9	2422040000	I.23
SAIE-M12B-8S0.5U HW	1223650050	C.55
SAIE-M12B-8S-13/14SMT	2423170000	I.37
SAIE-M12B-8S2.0U HW	1223650000	C.55
SAIE-M12B-8S-9/14SMT	2423470000	I.37
SAIE-M12B-8S-F10TL	2421790000	I.33
SAIE-M12B-8S-H10TL	2421850000	I.33
SAIE-M12B-8S-H6.75TL	2421940000	I.26
SAIE-M12B-8S-TL-HW-PG9	1467790000	C.57
SAIE-M12BB-4-F10TL	2423900000	I.35
SAIE-M12BB-4-F5.5TL	2424020000	I.35
SAIE-M12BB-4-H10TL	2423930000	I.34
SAIE-M12BB-4-H12TL-PG9	2424510000	I.25
SAIE-M12BB-4-H5.5TL	2424050000	I.34
SAIE-M12BB-4-H5.5TL-PG9	2424490000	I.25
SAIE-M12BB-4S-13/14SMT	2423740000	I.38
SAIE-M12BB-4S-9/14SMT	2423680000	I.38
SAIE-M12BB-4S-H6.75TL	2421970000	I.26
SAIE-M12BB-5S-13/14SMT	2423770000	I.38
SAIE-M12BB-5S-9/14SMT	2423710000	I.38
SAIE-M12BD-4-F10TL	2424140000	I.35
SAIE-M12BD-4-F5.5TL	2424200000	I.35
SAIE-M12BD-4-H10TL	2424170000	I.34
SAIE-M12BD-4-H12TL-PG9	2424470000	I.25
SAIE-M12BD-4-H5.5TL	2424230000	I.34
SAIE-M12BD-4-H5.5TL-PG9	2424440000	I.25
SAIE-M12BD-4S-13/14SMT	2423890000	I.38
SAIE-M12BD-4S-9/14SMT	2423860000	I.38
SAIE-M12BD-4S-H6.75TL	2422000000	I.26
SAIE-M12BL-0.3VFM16-1.5	2530780000	D.24
SAIE-M12BL-0.3VFM16-2.5	2530800000	D.24
SAIE-M12BL-0.3VHM16-1.5	2625940000	D.24
SAIE-M12BL-0.3VHM16-2.5	2625970000	D.24
SAIE-M12BL-5S-F12TL-M16	2530890000	D.25
SAIE-M12BL-5S-H11TL-M16	2530910000	D.25
SAIE-M12B-PB-0.5U HW	1279480050	M.7
SAIE-M12B-PB-1.0U HW	1279480100	M.7
SAIE-M12B-PB-2.0U HW	1279480200	M.7
SAIE-M12B-PB-5.0U HW	1279480500	M.7
SAIE-M12S-12-0.5U-FP-M16	1283550000	C.49
SAIE-M12S-12S-TL-HW-PG9	1467740000	C.57
SAIE-M12S-3+PE-S-0.2U-M16	1467930000	D.23
SAIE-M12S-3+PE-S-0.5U-M16	1460320000	D.23
SAIE-M12S-4-0.2U P9 .75	1353770000	D.22
SAIE-M12S-4-0.2U-AEH-VA	1861220001	M.33
SAIE-M12S-4-0.5U-FP-M16	1861160000	C.49
SAIE-M12S-4-0.5U-M16	1861090000	C.49
SAIE-M12S-4-0.5U-PG9	1861220000	C.50
SAIE-M12S-4-9/14SMT	2423200000	I.36
SAIE-M12S-4A-FV-26-LK	2424340000	I.47
SAIE-M12S-4A-H-LK	2424210000	I.46
SAIE-M12S-4AS-H6.75TL	2424040000	I.26
SAIE-M12S-4B-F-LK	2424180000	I.46
SAIE-M12S-4B-FV-20-LK	2424310000	I.47
SAIE-M12S-4B-FV-26-LK	2424400000	I.47
SAIE-M12S-4B-H12TL-M16	2422400000	I.24
SAIE-M12S-4B-H5.5TL-M16	2422370000	I.24

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SAIE-M12S-4BS-H6.75TL	2424120000	I.26
SAIE-M12S-4DS-H6.75TL	2424100000	I.26
SAIE-M12S-4-F10TL	2422580000	I.28
SAIE-M12S-4-F5.5TL	2423060000	I.27
SAIE-M12S-4-H10TL	2422820000	I.28
SAIE-M12S-4-H12TL-M16	2421830000	I.22
SAIE-M12S-4-H12TL-PG9	2422130000	I.23
SAIE-M12S-4-H5.5TL	2423300000	I.27
SAIE-M12S-4-H5.5TL-M16	2421740000	I.22
SAIE-M12S-4-H5.5TL-PG9	2422100000	I.23
SAIE-M12S-4S-9/14SMT	2423290000	I.37
SAIE-M12S-4S-F10TL	2422610000	I.33
SAIE-M12S-4S-F5.5TL	2423090000	I.32
SAIE-M12S-4S-H10TL	2422850000	I.33
SAIE-M12S-4S-H5.5TL	2423330000	I.32
SAIE-M12S-4S-TL-HW-PG9	1467710000	C.57
SAIE-M12S-4-T-0.2U-M16	1467950000	D.23
SAIE-M12S-4-T-0.5U-M16	1460340000	D.23
SAIE-M12S-5-0.2U P9 .75	1353790000	D.22
SAIE-M12S-5-0.5U-FP-M16	1861170000	C.49
SAIE-M12S-5-0.5U-M16	1861230000	C.49
SAIE-M12S-5-0.5U-PG9	1856120000	C.50
SAIE-M12S-5-9/14SMT	2423230000	I.36
SAIE-M12S-5A-F-LK	2424160000	I.46
SAIE-M12S-5A-FV-20-LK	2424270000	I.47
SAIE-M12S-5A-FV-26-LK	2424370000	I.47
SAIE-M12S-5AS-H6.75TL	2424070000	I.26
SAIE-M12S-5B-H-LK	2424240000	I.46
SAIE-M12S-5-F10TL	2422640000	I.28
SAIE-M12S-5-F5.5TL	2423120000	I.27
SAIE-M12S-5-H10TL	2422880000	I.28
SAIE-M12S-5-H12TL-M16	2421860000	I.22
SAIE-M12S-5-H12TL-PG9	2422190000	I.23
SAIE-M12S-5-H5.5TL	2423360000	I.27
SAIE-M12S-5-H5.5TL-M16	2421770000	I.22
SAIE-M12S-5-H5.5TL-PG9	2422160000	I.23
SAIE-M12S-5S0.5U HW	1341230050	C.55
SAIE-M12S-5S2.0U HW	1341230200	C.55
SAIE-M12S-5S-9/14SMT	2423320000	I.37
SAIE-M12S-5S-F10TL	2422670000	I.33
SAIE-M12S-5S-F5.5TL	2423150000	I.32
SAIE-M12S-5S-H10TL	2422910000	I.33
SAIE-M12S-5S-H5.5TL	2423390000	I.32
SAIE-M12S-5S-TL-HW-PG9	1467720000	C.57
SAIE-M12S-5-TL	1312980000	C.56
SAIE-M12S-8-0.5U-FP-M16	1861180000	C.49
SAIE-M12S-8-0.5U-M16	1861110000	C.49
SAIE-M12S-8-0.5U-PG9	1861240000	C.50
SAIE-M12S-8-9/14SMT	2423260000	I.36
SAIE-M12S-8-H12TL-M16	2421890000	I.22
SAIE-M12S-8-H12TL-PG9	2422250000	I.23
SAIE-M12S-8-H5.5TL-M16	2421800000	I.22
SAIE-M12S-8-H5.5TL-PG9	2422220000	I.23
SAIE-M12S-8S0.5U HW	1341240050	C.55
SAIE-M12S-8S2.0U HW	1341240200	C.55
SAIE-M12S-8S-9/14SMT	2423350000	I.37
SAIE-M12S-8S-TL-HW-PG9	1467730000	C.57
SAIE-M12SB-4-F10TL	2423960000	I.35
SAIE-M12SB-4-F5.5TL	2424080000	I.35
SAIE-M12SB-4-H10TL	2423990000	I.34
SAIE-M12SB-4-H12TL-PG9	2421730000	I.25
SAIE-M12SB-4-H5.5TL	2424110000	I.34
SAIE-M12SB-4-H5.5TL-PG9	2421700000	I.25
SAIE-M12SB-4S-9SMT	2423800000	I.38
SAIE-M12SB-5S-9SMT	2423830000	I.38
SAIE-M12SL-0.3VFM16-1.5	2530770000	D.24
SAIE-M12SL-0.3VFM16-2.5	2530790000	D.24
SAIE-M12SL-0.3VHM16-1.5	2625950000	D.24
SAIE-M12SL-0.3VHM16-2.5	2625960000	D.24
SAIE-M12SL-5S-F12TL-M16	2530880000	D.25
SAIE-M12SL-5S-H11TL-M16	2530900000	D.25
SAIE-M12S-PB-0.5U HW	1279490050	M.7
SAIE-M12S-PB-1.0U HW	1279490100	M.7
SAIE-M12S-PB-2.0U HW	1279490200	M.7
SAIE-M12S-PB-5.0U HW	1279490500	M.7
SAIE-M16B-4-L	1326720000	C.58
SAIE-M16B-5-L	1326730000	C.58
SAIE-M16B-7-L	1326740000	C.58
SAIE-M16S-5-HWM	1269790000	C.58
SAIE-M23-L-EM	1170320000	L.31
SAIE-M23-L-EM-VA	1479420000	L.29
SAIE-M23-L-HW	1170340000	L.31
SAIE-M23-L-RM	1170310000	L.31
SAIE-M23-L-VW	1170300000	L.31
SAIE-M23-L-VW-VA	1483880000	L.29
SAIE-M23-L-W	1170330000	L.31
SAIE-M23-S-EM	1169970000	L.13
SAIE-M23-S-EM	1169970000	L.26
SAIE-M23-S-EM	1169970000	L.27
SAIE-M23-S-EM-VA	1479400000	L.29
SAIE-M23-S-HW	1169990000	L.13
SAIE-M23-S-HW	1169990000	L.26
SAIE-M23-S-HW	1169990000	L.27
SAIE-M23-S-RM	1169950000	L.13
SAIE-M23-S-RM	1169950000	L.26
SAIE-M23S-S-EM-M20	1373440000	L.13
SAIE-M23-S-VW	1169940000	L.13
SAIE-M23-S-VW	1169940000	L.26
SAIE-M23-S-VW-VA	1452450000	L.29

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SAIE-M23-S-W	1169980000	L.13
SAIE-M5B-3-0.2U	1873060000	C.54
SAIE-M5B-4-0.2U	1873040000	C.54
SAIE-M5S-3-0.2U	1873050000	C.54
SAIE-M5S-4-0.2U	1873030000	C.54
SAIE-M8B-3-0.5U-FP-M8	1856130000	C.53
SAIE-M8B-3-F13SMT	2422230000	I.14
SAIE-M8B-3-F13THR	2422830000	I.10
SAIE-M8B-3-F9SMT	2422200000	I.14
SAIE-M8B-3-F9THR	2422800000	I.10
SAIE-M8B-4-0.5U-FP-M8	1856140000	C.53
SAIE-M8B-4-H5.5TL	2421610000	I.6
SAIE-M8B-4-H6SMT	2422380000	I.15
SAIE-M8B-4-H6THR	2422980000	I.11
SAIE-M8B-4S-F13SMT	2422440000	I.16
SAIE-M8B-4S-F13THR	2423040000	I.12
SAIE-M8B-4S-F9SMT	2422410000	I.16
SAIE-M8B-4S-F9THR	2423010000	I.12
SAIE-M8B-4S-F9TL	2423550000	I.8
SAIE-M8B-4S-H10TL	2423580000	I.7
SAIE-M8B-5B-H5.5TL	2421630000	I.6
SAIE-M8B-5-F13SMT	2422680000	I.14
SAIE-M8B-5-F13THR	2423280000	I.10
SAIE-M8B-5-F9SMT	2422650000	I.14
SAIE-M8B-5-F9THR	2423250000	I.10
SAIE-M8B-5S-F13TL	2423670000	I.8
SAIE-M8B-5S-H6TL	2423700000	I.7
SAIE-M8B-8-0.2U-FP	1467630000	C.51
SAIE-M8B-8-0.2U-HW	1467640000	C.51
SAIE-M8B-8-H5.5TL	2421650000	I.6
SAIE-M8B-8S-F13SMT	2422740000	I.16
SAIE-M8B-8S-F13THR	2423340000	I.12
SAIE-M8B-8S-F9SMT	2422710000	I.16
SAIE-M8B-8S-F9THR	2423310000	I.12
SAIE-M8B-8S-H10SMT	2422770000	I.15
SAIE-M8B-8S-H10THR	2423370000	I.11
SAIE-M8B-8S-H10TL	2423730000	I.7
SAIE-M8B-8S-H6TL	2423400000	I.7
SAIE-M8B-8-TL-HW	1467650000	C.52
SAIE-M8R-3-0.5U-FP-M8	1861280000	C.53
SAIE-M8R-4-0.5U-FP-M8	1861290000	C.53
SAIE-M8S-3-0.5U-FP-M8	1078730000	C.53
SAIE-M8S-3-F13SMT	2422290000	I.14
SAIE-M8S-3-F13THR	2422890000	I.10
SAIE-M8S-3-F9SMT	2422260000	I.14
SAIE-M8S-3-F9THR	2422860000	I.10
SAIE-M8S-3-H5.5TL	2421570000	I.6
SAIE-M8S-3S-F13SMT	2422350000	I.16
SAIE-M8S-3S-F13THR	2422950000	I.12
SAIE-M8S-3S-F13TL	2423460000	I.8
SAIE-M8S-3S-F9SMT	2422320000	I.16
SAIE-M8S-3S-F9THR	2422920000	I.12
SAIE-M8S-3S-F9TL	2423430000	I.8
SAIE-M8S-3S-H10TL	2423520000	I.7
SAIE-M8S-3S-H6TL	2423490000	I.7
SAIE-M8S-4-0.5U-FP-M8	1078720000	C.53
SAIE-M8S-4-F13SMT	2422500000	I.14
SAIE-M8S-4-F13THR	2423100000	I.10
SAIE-M8S-4-F9SMT	2422470000	I.14
SAIE-M8S-4-F9THR	2423070000	I.10
SAIE-M8S-4-H5.5TL	2421580000	I.6
SAIE-M8S-4-H6SMT	2422530000	I.15
SAIE-M8S-4-H6THR	2423130000	I.11
SAIE-M8S-4S-F13SMT	2422590000	I.16
SAIE-M8S-4S-F9SMT	2422560000	I.16
SAIE-M8S-4S-F9SMT	2422560000	I.5
SAIE-M8S-4S-F9THR	2423160000	I.12
SAIE-M8S-4S-H10SMT	2422620000	I.15
SAIE-M8S-4S-H10THR	2423220000	I.11
SAIE-M8S-4S-H10TL	2423640000	I.7
SAIE-M8S-4S-H6TL	2423610000	I.7
SAIE-M8S-5B-H5.5TL	2421590000	I.6
SAIE-M8S-8-0.2U-FP	1467590000	C.51
SAIE-M8S-8-0.2U-HW	1467620000	C.51
SAIE-M8S-8-H5.5TL	2421690000	I.6
SAIE-M8S-8-TL-HW	1467610000	C.52
SAIEND 1/4 M8G 3P	2662450000	F.6
SAIEND CAN M8 4P	1955340000	M.58
SAIEW-M12B-4-FTL	2423540000	I.29
SAIEW-M12B-4-HTL	2423420000	I.29
SAIEW-M12B-4S-FTL	2423570000	I.30
SAIEW-M12B-4S-HTL	2423450000	I.30
SAIEW-M12B-4S-TL-HW-PG9	1467820000	C.57
SAIEW-M12B-5-FTL	2423600000	I.29
SAIEW-M12B-5-HTL	2423480000	I.29
SAIEW-M12B-5S-FTL	2423630000	I.30
SAIEW-M12B-5S-HTL	2423510000	I.30
SAIEW-M12B-5S-TL-HW-PG9	1467830000	C.57
SAIEW-M12BB-4-FTL	2424260000	I.31
SAIEW-M12BB-4-HTL	2424290000	I.31
SAIEW-M12BD-4-FTL	2424380000	I.31
SAIEW-M12S-4-FTL	2423780000	I.29
SAIEW-M12S-4-HTL	2423660000	I.29
SAIEW-M12S-4S-FTL	2423810000	I.30
SAIEW-M12S-4S-HTL	2423690000	I.30
SAIEW-M12S-4S-TL-HW-PG9	1467750000	C.57
SAIEW-M12S-5-FTL	2423840000	I.29
SAIEW-M12S-5-HTL	2423720000	I.29
SAIEW-M12S-5S-FTL	2423870000	I.30

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SAIEW-M12S-5S-HTL	2423750000	I.30
SAIEW-M12S-5S-TL-HW-PG9	1467760000	C.57
SAIEW-M12SB-4-FTL	2424320000	I.31
SAIEW-M12SB-4-HTL	2424350000	I.31
SAIEW-M8B-3S-H12TL	2424280000	I.9
SAIEW-M8B-3S-H8TL	2424250000	I.9
SAIEW-M8B-4S-H12TL	2424390000	I.9
SAIEW-M8B-4S-H8TL	2424360000	I.9
SAIEW-M8S-3S-H12TL	2424330000	I.9
SAIEW-M8S-3S-H8TL	2424300000	I.9
SAIEW-M8S-4S-H12TL	2424450000	I.9
SAIEW-M8S-4S-H8TL	2424420000	I.9
SAIFG-M12B-L-F12-M16	2530840000	D.26
SAIFG-M12B-L-H11-M16	2530870000	D.26
SAIFG-M12S-L-F12-M16	2530830000	D.26
SAIFG-M12S-L-H11-M16	2530850000	D.26
SAIFG-M14X1-B-1	2423920000	I.45
SAIFG-M14X1-B-1	2423920000	I.5
SAIFG-M14X1-B-2	2423950000	I.45
SAIFG-M14X1-B-2	2423950000	I.5
SAIFG-M14X1-S-1	2423980000	I.44
SAIFG-M14X1-S-1	2423980000	I.5
SAIFG-M8B-M10-13	2424460000	I.18
SAIFG-M8B-M10-13	2424460000	I.4
SAIFG-M8B-M10-9	2424430000	I.18
SAIFG-M8B-M10-9	2424430000	I.4
SAIFG-M8S-M10-13	2424530000	I.19
SAIFG-M8S-M10-13	2424530000	I.4
SAIFG-M8S-M10-9	2424520000	I.19
SAIFG-M8S-M10-9	2424520000	I.4
SAI-H3-M12-S-COD	2616410000	D.27
SAI-H3-M12-T-COD	2616420000	D.27
SAIH-3x0,25(PUR)	1902140000	B.62
SAIH-3x0,25(PVC)	1902190000	B.65
SAIH-3x0,34(PUR)	1902110000	B.63
SAIH-3x0,34(PUR)	1902110000	B.73
SAIH-3x0,34(PVC)	1902160000	B.66
SAIH-3x0.34(PUR)GE	1345520000	B.68
SAIH-3x0.34-S(PUR)	1357320000	B.70
SAIH-4x0,25(PUR)	1902120000	B.62
SAIH-4x0,25(PVC)	1902170000	B.65
SAIH-4x0,34(PUR)	1902130000	B.63
SAIH-4x0,34(PUR)	1902130000	B.73
SAIH-4x0,34(PVC)	1902180000	B.66
SAIH-4x0.34(PUR)GE	1345530000	B.68
SAIH-4x0.34-S(PUR)	1357330000	B.70
SAIH-5x0,34(PUR)	1022960000	B.64
SAIH-5x0.34(PUR)GE	1345540000	B.69
SAIH-5x0.34(PVC)	1412620000	B.67
SAIH-5x0.34-S(PUR)	1357340000	B.71
SAIH-CD-2x0.34/2x0.22-PUR	1058630000	M.59
SAIHG-M8B-M12-10	2424500000	I.20
SAIHG-M8B-M12-10	2424500000	I.4
SAIHG-M8B-M12-6	2424480000	I.20
SAIHG-M8B-M12-6	2424480000	I.4
SAIHG-M8S-M12-10	2424550000	I.21
SAIHG-M8S-M12-10	2424550000	I.4
SAIHG-M8S-M12-6	2424540000	I.21
SAIHG-M8S-M12-6	2424540000	I.4
SAI-H-M12-S-COD	2616350000	D.27
SAI-H-M12-T-COD	2439350000	D.27
SAIH-PB-2X0.34-PVC	1933640000	M.9
SAIH-PB-2xAWG24(PUR)	1232620000	M.8
SAIH-PB-PA-2x1.0(PVC)	1232640000	M.30
SAIH-PB-PA-2X1.0-PVC-BL	1232630000	M.30
SAIH-SLL-3x0,75-8x0,34	9457420000	B.72
SAIH-SLL-3X0.75-16X0.34	9457560000	B.72
SAI-HDC-TOOL	1795020000	E.19
SAIL-7/8BG-3-1.5U	1292100150	K.13
SAIL-7/8BG-4-1.5U	1292140150	K.13
SAIL-7/8BG-5-1.5U	1292190150	K.13
SAIL-7/8BW-3-1.5U	1292110150	K.13
SAIL-7/8BW-4-1.5U	1292150150	K.13
SAIL-7/8BW-5-1.5U	1292200150	K.13
SAIL-7/8G-3-1.5U	1292080150	K.13
SAIL-7/8G-4-1.5U	1292120150	K.13
SAIL-7/8G-5-1.5U	1292170150	K.13
SAIL-7/8W-3-1.5U	1292090150	K.13
SAIL-7/8W-4-1.5U	1292130150	K.13
SAIL-7/8W-5-1.5U	1292180150	K.13
SAIL-M12BG-12-1.5U	1879710150	B.14
SAIL-M12BG-3-1.5T	1968590150	B.11
SAIL-M12BG-3-1.5U	9457820150	B.11
SAIL-M12BG-3-1.5U	9457820150	B.6
SAIL-M12BG-3-1.5UGE	1092910150	B.11
SAIL-M12BG-3-1.5V	1925570150	B.11
SAIL-M12BG-3-1.5V	1925570150	B.6
SAIL-M12BG-3-10U	9457821000	B.6
SAIL-M12BG-3-10V	1925571000	B.6
SAIL-M12BG-3-3.0U	9457820300	B.6
SAIL-M12BG-3-3.0V	1925570300	B.6
SAIL-M12BG-3-5.0U	9457820500	B.6
SAIL-M12BG-3-5.0V	1925570500	B.6
SAIL-M12BG-3B-1.5U	1057740150	B.49
SAIL-M12BG-3L1.5U	1292620150	B.16
SAIL-M12BG-3S1.5U	1867410150	B.17
SAIL-M12BG-4-1.5T	1968580150	B.11
SAIL-M12BG-4-1.5U	9457730150	B.11
SAIL-M12BG-4-1.5U	9457730150	B.6

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SAIL-M12BG-4-1.5UGE	1092920150	B.11
SAIL-M12BG-4-1.5V	1925580150	B.11
SAIL-M12BG-4-1.5V	1925580150	B.6
SAIL-M12BG-4-10U	9457731000	B.6
SAIL-M12BG-4-10V	1925581000	B.6
SAIL-M12BG-4-2L2.0U	1094190200	B.16
SAIL-M12BG-4-3.0U	9457730300	B.6
SAIL-M12BG-4-3.0V	1925580300	B.6
SAIL-M12BG-4-5.0U	9457730500	B.6
SAIL-M12BG-4-5.0V	1925580500	B.6
SAIL-M12BG-4B-1.5U	1057750150	B.49
SAIL-M12BG-4S1.5U	1812540150	B.17
SAIL-M12BG-5-1.5T	1021670150	B.11
SAIL-M12BG-5-1.5U	9457910150	B.11
SAIL-M12BG-5-1.5U	9457910150	B.7
SAIL-M12BG-5-1.5UGE	1092930150	B.11
SAIL-M12BG-5-1.5V	1925590150	B.11
SAIL-M12BG-5-1.5V	1925590150	B.7
SAIL-M12BG-5-10U	9457911000	B.7
SAIL-M12BG-5-10V	1925591000	B.7
SAIL-M12BG-5-3.0U	9457910300	B.7
SAIL-M12BG-5-3.0V	1925590300	B.7
SAIL-M12BG-5-5.0U	9457910500	B.7
SAIL-M12BG-5-5.0V	1925590500	B.7
SAIL-M12BG-5B-1.5U	1061880150	B.49
SAIL-M12BG-5S1.5U	9456140150	B.17
SAIL-M12BG-8-1.5U	1865870150	B.14
SAIL-M12BG-8S1.5U	1890520150	B.15
SAIL-M12BG-B-USB-1.5U	1962800150	B.37
SAIL-M12BG-CD-1.5A	1964690150	M.56
SAIL-M12BG-CD-1.5B	1060120150	M.56
SAIL-M12BG-K-1.5P	2455150150	D.6
SAIL-M12BG-K-10P	2455151000	D.6
SAIL-M12BG-K-3.0P	2455150300	D.6
SAIL-M12BG-K-5.0P	2455150500	D.6
SAIL-M12BGL-1.5PGR	2455330150	D.4
SAIL-M12BG-L-10PGR	2455331000	D.4
SAIL-M12BG-L-3.0PGR	2455330300	D.4
SAIL-M12BG-L-5.0PGR	2455330500	D.4
SAIL-M12BG-PB-1.5D	1873320150	M.4
SAIL-M12BG-PB-1.5E	1058540150	M.4
SAIL-M12BG-PBK38-1.5V	1431520150	M.6
SAIL-M12BG-S-1.5P	2050160150	D.8
SAIL-M12BG-S-10P	2050161000	D.8
SAIL-M12BG-S-3.0P	2050160300	D.8
SAIL-M12BG-S3-1.5PK16	2049950150	D.8
SAIL-M12BG-S3-10PK16	2049951000	D.8
SAIL-M12BG-S3-3.0PK16	2049950300	D.8
SAIL-M12BG-S3-5.0PK16	2049950500	D.8
SAIL-M12BG-S-5.0P	2050160500	D.8
SAIL-M12BG-T-1.5H	2050680150	D.10
SAIL-M12BG-T-1.5P	2050490150	D.10
SAIL-M12BG-T-10H	2050681000	D.10
SAIL-M12BG-T-10P	2050491000	D.10
SAIL-M12BG-T-3.0H	2050680300	D.10
SAIL-M12BG-T-3.0P	2050490300	D.10
SAIL-M12BG-T-5.0H	2050680500	D.10
SAIL-M12BG-T-5.0P	2050490500	D.10
SAIL-M12BG-TS-5.0U	2671670500	D.12
SAIL-M12BG-USB-3.0U	1288820300	B.37
SAIL-M12BW-12-1.5U	1898240150	B.14
SAIL-M12BW-3-1.5T	1968560150	B.11
SAIL-M12BW-3-1.5U	9457320150	B.11
SAIL-M12BW-3-1.5U	9457320150	B.7
SAIL-M12BW-3-1.5UGE	1092940150	B.11
SAIL-M12BW-3-1.5V	1925630150	B.11
SAIL-M12BW-3-1.5V	1925630150	B.7
SAIL-M12BW-3-10U	9457321000	B.7
SAIL-M12BW-3-10V	1925631000	B.7
SAIL-M12BW-3-3.0U	9457320300	B.7
SAIL-M12BW-3-3.0V	1925630300	B.7
SAIL-M12BW-3-5.0U	9457320500	B.7
SAIL-M12BW-3-5.0V	1925630500	B.7
SAIL-M12BW-3B-1.5U	1061890150	B.49
SAIL-M12BW-3L1.5T	1004330150	B.16
SAIL-M12BW-3L1.5U	9457800150	B.16
SAIL-M12BW-3L1.5U	9457800150	B.8
SAIL-M12BW-3L1.5UGE	1114880150	B.16
SAIL-M12BW-3L1.5V	1925460150	B.16
SAIL-M12BW-3L1.5V	1925460150	B.8
SAIL-M12BW-3L10U	9457801000	B.8
SAIL-M12BW-3L10V	1925461000	B.8
SAIL-M12BW-3L3.0U	9457800300	B.8
SAIL-M12BW-3L3.0V	1925460300	B.8
SAIL-M12BW-3L5.0U	9457800500	B.8
SAIL-M12BW-3L5.0V	1925460500	B.8
SAIL-M12BW-3S1.5U	1906950150	B.17
SAIL-M12BW-4-1.5T	1968570150	B.11
SAIL-M12BW-4-1.5U	9457740150	B.11
SAIL-M12BW-4-1.5U	9457740150	B.7
SAIL-M12BW-4-1.5UGE	1092960150	B.11
SAIL-M12BW-4-1.5V	1925640150	B.11
SAIL-M12BW-4-1.5V	1925640150	B.7
SAIL-M12BW-4-10U	9457741000	B.7
SAIL-M12BW-4-10V	1925641000	B.7
SAIL-M12BW-4-2L1.5T	1007000150	B.16
SAIL-M12BW-4-2L1.5U	9456380150	B.16
SAIL-M12BW-4-2L1.5U	9456380150	B.8
SAIL-M12BW-4-2L1.5UGE	1092950150	B.16

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SAIL-M12BW-4-2L1.5V	1925470150	B.16
SAIL-M12BW-4-2L1.5V	1925470150	B.8
SAIL-M12BW-4-2L10U	9456381000	B.8
SAIL-M12BW-4-2L10V	1925471000	B.8
SAIL-M12BW-4-2L3.0U	9456380300	B.8
SAIL-M12BW-4-2L3.0V	1925470300	B.8
SAIL-M12BW-4-2L5.0U	9456380500	B.8
SAIL-M12BW-4-2L5.0V	1925470500	B.8
SAIL-M12BW-4-3.0U	9457740300	B.7
SAIL-M12BW-4-3.0V	1925640300	B.7
SAIL-M12BW-4-3L1.5U	1963940150	B.16
SAIL-M12BW-4-3L1.5V	1963960150	B.16
SAIL-M12BW-4-5.0U	9457740500	B.7
SAIL-M12BW-4-5.0V	1925640500	B.7
SAIL-M12BW-4B-1.5U	1061900150	B.49
SAIL-M12BW-4S1.5U	1808970150	B.17
SAIL-M12BW-5-1.5T	1021690150	B.11
SAIL-M12BW-5-1.5U	9457690150	B.11
SAIL-M12BW-5-1.5U	9457690150	B.7
SAIL-M12BW-5-1.5UGE	1092970150	B.11
SAIL-M12BW-5-1.5V	1925650150	B.11
SAIL-M12BW-5-1.5V	1925650150	B.7
SAIL-M12BW-5-10U	9457691000	B.7
SAIL-M12BW-5-10V	1925651000	B.7
SAIL-M12BW-5-3.0U	9457690300	B.7
SAIL-M12BW-5-3.0V	1925650300	B.7
SAIL-M12BW-5-5.0U	9457690500	B.7
SAIL-M12BW-5-5.0V	1925650500	B.7
SAIL-M12BW-5B-1.5U	1057760150	B.49
SAIL-M12BW-5S1.5U	1906540150	B.17
SAIL-M12BW-8-1.5U	1883460150	B.14
SAIL-M12BW-8S1.5U	1275470150	B.15
SAIL-M12BW-CD-1.5A	1061980150	M.56
SAIL-M12BW-CD-1.5B	1062180150	M.56
SAIL-M12BW-K-1.5P	2455190150	D.6
SAIL-M12BW-K-10P	2455191000	D.6
SAIL-M12BW-K-3.0P	2455190300	D.6
SAIL-M12BW-K-5.0P	2455190500	D.6
SAIL-M12BW-L-1.5PGR	2455200150	D.4
SAIL-M12BW-L-10PGR	2455201000	D.4
SAIL-M12BW-L-3.0PGR	2455200300	D.4
SAIL-M12BW-L-5.0PGR	2455200500	D.4
SAIL-M12BW-PB-1.5D	1062300150	M.4
SAIL-M12BW-PB-1.5E	1062370150	M.4
SAIL-M12BW-PBK38-1.5V	1431510150	M.6
SAIL-M12BW-S-1.5P	2050210150	D.8
SAIL-M12BW-S-10P	2050211000	D.8
SAIL-M12BW-S-3.0P	2050210300	D.8
SAIL-M12BW-S3-1.5P	2050010150	D.8
SAIL-M12BW-S3-10P	2050011000	D.8
SAIL-M12BW-S3-3.0P	2050010300	D.8
SAIL-M12BW-S3-5.0P	2050010500	D.8
SAIL-M12BW-S-5.0P	2050210500	D.8
SAIL-M12BW-T-1.5H	2050690150	D.10
SAIL-M12BW-T-1.5P	2050560150	D.10
SAIL-M12BW-T-10H	2050691000	D.10
SAIL-M12BW-T-10P	2050561000	D.10
SAIL-M12BW-T-3.0H	2050690300	D.10
SAIL-M12BW-T-3.0P	2050560300	D.10
SAIL-M12BW-T-5.0H	2050690500	D.10
SAIL-M12BW-T-5.0P	2050560500	D.10
SAIL-M12G-12-1.5U	1311700150	B.14
SAIL-M12G-3-1.5T	1021750150	B.11
SAIL-M12G-3-1.5U	9457810150	B.11
SAIL-M12G-3-1.5U	9457810150	B.4
SAIL-M12G-3-1.5UGE	1092980150	B.11
SAIL-M12G-3-1.5V	1925430150	B.11
SAIL-M12G-3-1.5V	1925430150	B.4
SAIL-M12G-3-10U	9457811000	B.4
SAIL-M12G-3-10V	1925431000	B.4
SAIL-M12G-3-3.0U	9457810300	B.4
SAIL-M12G-3-3.0V	1925430300	B.4
SAIL-M12G-3-5.0U	9457810500	B.4
SAIL-M12G-3-5.0V	1925430500	B.4
SAIL-M12G-3B-1.5U	1057770150	B.49
SAIL-M12G-3S1.5U	1906470150	B.17
SAIL-M12G-4-1.5T	1021770150	B.11
SAIL-M12G-4-1.5U	9456100150	B.11
SAIL-M12G-4-1.5U	9456100150	B.4
SAIL-M12G-4-1.5UGE	1077750150	B.11
SAIL-M12G-4-1.5V	1925440150	B.11
SAIL-M12G-4-1.5V	1925440150	B.4
SAIL-M12G-4-10U	9456101000	B.4
SAIL-M12G-4-10V	1925441000	B.4
SAIL-M12G-4-3.0U	9456100300	B.4
SAIL-M12G-4-3.0V	1925440300	B.4
SAIL-M12G-4-5.0U	9456100500	B.4
SAIL-M12G-4-5.0V	1925440500	B.4
SAIL-M12G-4B-1.5U	1057780150	B.49
SAIL-M12G-4S1.5U	1906480150	B.17
SAIL-M12G-5-1.5T	1021650150	B.11
SAIL-M12G-5-1.5U	9457610150	B.11
SAIL-M12G-5-1.5U	9457610150	B.4
SAIL-M12G-5-1.5UGE	1092990150	B.11
SAIL-M12G-5-1.5V	1925450150	B.11
SAIL-M12G-5-1.5V	1925450150	B.4
SAIL-M12G-5-10U	9457611000	B.4
SAIL-M12G-5-10V	1925451000	B.4
SAIL-M12G-5-3.0U	9457610300	B.4

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SAIL-M12G-5-5.0U	9457610500	B.4
SAIL-M12G-5-5.0V	1925450500	B.4
SAIL-M12G-5B-1.5U	1057790150	B.49
SAIL-M12G-5S1.5U	1926690150	B.17
SAIL-M12G-8-1.5U	1279410150	B.14
SAIL-M12G-8S1.5U	1279430150	B.15
SAIL-M12G-CD-1.5A	1964700150	M.56
SAIL-M12G-CD-1.5B	1060110150	M.56
SAIL-M12G-K-1.5P	2455210150	D.6
SAIL-M12G-K-10P	2455211000	D.6
SAIL-M12G-K-3.0P	2455210300	D.6
SAIL-M12G-K-5.0P	2455210500	D.6
SAIL-M12G-L-1.5PGR	2455220150	D.4
SAIL-M12G-L-10PGR	2455221000	D.4
SAIL-M12G-L-3.0PGR	2455220300	D.4
SAIL-M12G-L-5.0PGR	2455220500	D.4
SAIL-M12GM12G-2/4-1.5U	9456990150	B.31
SAIL-M12GM12G-2/4-1.5UGE	1093000150	B.31
SAIL-M12GM12G-2/4-1.5V	1925330150	B.31
SAIL-M12GM12G-3-1.5T	1021710150	B.29
SAIL-M12GM12G-3-1.5U	9457230150	B.29
SAIL-M12GM12G-3-1.5U	9457230150	B.6
SAIL-M12GM12G-3-1.5UGE	1093010150	B.29
SAIL-M12GM12G-3-1.5V	1925300150	B.29
SAIL-M12GM12G-3-1.5V	1925300150	B.6
SAIL-M12GM12G-3-10U	9457231000	B.6
SAIL-M12GM12G-3-10V	1925301000	B.6
SAIL-M12GM12G-3-3.0U	9457230300	B.6
SAIL-M12GM12G-3-3.0V	1925300300	B.6
SAIL-M12GM12G-3-5.0U	9457230500	B.6
SAIL-M12GM12G-3-5.0V	1925300500	B.6
SAIL-M12GM12G-3B-1.5U	1057830150	B.50
SAIL-M12GM12G-3S1.5U	1058490150	B.30
SAIL-M12GM12G-4-0.3U	1906300030	H.9
SAIL-M12GM12G-4-0.5U	1906300050	H.9
SAIL-M12GM12G-4-1.5T	1021730150	B.29
SAIL-M12GM12G-4-1.5U	1906300150	B.29
SAIL-M12GM12G-4-1.5U	1906300150	B.6
SAIL-M12GM12G-4-1.5U	1906300150	H.9
SAIL-M12GM12G-4-1.5UGE	1093020150	B.29
SAIL-M12GM12G-4-1.5V	1925310150	B.29
SAIL-M12GM12G-4-1.5V	1925310150	B.6
SAIL-M12GM12G-4-10U	1906301000	B.6
SAIL-M12GM12G-4-10V	1925311000	B.6
SAIL-M12GM12G-4-3.0U	1906300300	B.6
SAIL-M12GM12G-4-3.0V	1925310300	B.6
SAIL-M12GM12G-4-5.0U	1906300500	B.6
SAIL-M12GM12G-4-5.0V	1925310500	B.6
SAIL-M12GM12G-4B-1.5U	1057840150	B.50
SAIL-M12GM12G-4S1.5U	1058500150	B.30
SAIL-M12GM12G-4-X.XU	1906300000	B.6
SAIL-M12GM12G-5-0.3U	9457340030	H.9
SAIL-M12GM12G-5-0.6U	9457340060	H.9
SAIL-M12GM12G-5-1.5T	1011970150	B.29
SAIL-M12GM12G-5-1.5U	9457340150	B.29
SAIL-M12GM12G-5-1.5U	9457340150	B.7
SAIL-M12GM12G-5-1.5U	9457340150	H.9
SAIL-M12GM12G-5-1.5UGE	1093030150	B.29
SAIL-M12GM12G-5-1.5V	1925320150	B.29
SAIL-M12GM12G-5-1.5V	1925320150	B.7
SAIL-M12GM12G-5-10U	9457341000	B.7
SAIL-M12GM12G-5-10V	1925321000	B.7
SAIL-M12GM12G-5-3.0U	9457340300	B.7
SAIL-M12GM12G-5-3.0V	1925320300	B.7
SAIL-M12GM12G-5-5.0U	9457340500	B.7
SAIL-M12GM12G-5-5.0V	1925320500	B.7
SAIL-M12GM12G-5B-1.5U	1057850150	B.50
SAIL-M12GM12G-5S1.5U	1058510150	B.30
SAIL-M12GM12G-8-1.5U	1279440150	B.14
SAIL-M12GM12G-8S1.5U	1279460150	B.15
SAIL-M12GM12G-CD-1.5A	1964710150	M.57
SAIL-M12GM12G-CD-1.5B	1060130150	M.57
SAIL-M12GM12G-K-1.5P	2455250150	D.7
SAIL-M12GM12G-K-10P	2455251000	D.7
SAIL-M12GM12G-K-3.0P	2455250300	D.7
SAIL-M12GM12G-K-5.0P	2455250500	D.7
SAIL-M12GM12G-L-1.5PGR	2455260150	D.5
SAIL-M12GM12G-L-10PGR	2455261000	D.5
SAIL-M12GM12G-L-3.0PGR	2455260300	D.5
SAIL-M12GM12G-L-5.0PGR	2455260500	D.5
SAIL-M12GM12G-PB-1.5D	1873310150	M.5
SAIL-M12GM12G-PB-1.5E	1058570150	M.5
SAIL-M12GM12G-S-1.5P	2050270150	D.9
SAIL-M12GM12G-S-10P	2050271000	D.9
SAIL-M12GM12G-S-3.0P	2050270300	D.9
SAIL-M12GM12G-S3-1.5P	2050060150	D.9
SAIL-M12GM12G-S3-10P	2050061000	D.9
SAIL-M12GM12G-S3-3.0P	2050060300	D.9
SAIL-M12GM12G-S3-5.0P	2050060500	D.9
SAIL-M12GM12G-S-5.0P	2050270500	D.9
SAIL-M12GM12G-T-1.5H	2050870150	D.11
SAIL-M12GM12G-T-1.5P	2050760150	D.11
SAIL-M12GM12G-T-10H	2050871000	D.11
SAIL-M12GM12G-T-10P	2050761000	D.11
SAIL-M12GM12G-T-3.0H	2050870300	D.11
SAIL-M12GM12G-T-3.0P	2050760300	D.11
SAIL-M12GM12G-T-5.0H	2050870500	D.11
SAIL-M12GM12G-T-5.0P	2050760500	D.11

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SAIL-M12GM12G-TS-1.5U	2490240150	D.12
SAIL-M12GM12G-TS-10U	2490241000	D.12
SAIL-M12GM12G-TS-3.0U	2490240300	D.12
SAIL-M12GM12G-TS-6.0U	2490240600	D.12
SAIL-M12GM12W-2/4-1.5U	9457890150	B.31
SAIL-M12GM12W-2/4-1.5UGE	1093040150	B.31
SAIL-M12GM12W-2/4-1.5V	1925370150	B.31
SAIL-M12GM12W-3-1.5T	1021720150	B.29
SAIL-M12GM12W-3-1.5U	9457390150	B.29
SAIL-M12GM12W-3-1.5U	9457390150	B.7
SAIL-M12GM12W-3-1.5UGE	1093050150	B.29
SAIL-M12GM12W-3-1.5V	1925340150	B.29
SAIL-M12GM12W-3-1.5V	1925340150	B.7
SAIL-M12GM12W-3-10U	9457391000	B.7
SAIL-M12GM12W-3-10V	1925341000	B.7
SAIL-M12GM12W-3-3.0U	9457390300	B.7
SAIL-M12GM12W-3-3.0V	1925340300	B.7
SAIL-M12GM12W-3-5.0U	9457390500	B.7
SAIL-M12GM12W-3-5.0V	1925340500	B.7
SAIL-M12GM12W-3B-1.5U	1057900150	B.50
SAIL-M12GM12W-3L1.5T	1004320150	B.32
SAIL-M12GM12W-3L1.5U	9457790150	B.32
SAIL-M12GM12W-3L1.5U	9457790150	B.8
SAIL-M12GM12W-3L1.5V	1925410150	B.32
SAIL-M12GM12W-3L1.5V	1925410150	B.8
SAIL-M12GM12W-3L10U	9457791000	B.8
SAIL-M12GM12W-3L10V	1925411000	B.8
SAIL-M12GM12W-3L3.0U	9457790300	B.8
SAIL-M12GM12W-3L3.0V	1925410300	B.8
SAIL-M12GM12W-3L5.0U	9457790500	B.8
SAIL-M12GM12W-3L5.0V	1925410500	B.8
SAIL-M12GM12W-3S1.5U	1059470150	B.30
SAIL-M12GM12W-4-1.5T	1021740150	B.29
SAIL-M12GM12W-4-1.5U	9457310150	B.29
SAIL-M12GM12W-4-1.5U	9457310150	B.7
SAIL-M12GM12W-4-1.5UGE	1093070150	B.29
SAIL-M12GM12W-4-1.5V	1925350150	B.29
SAIL-M12GM12W-4-1.5V	1925350150	B.7
SAIL-M12GM12W-4-10U	9457311000	B.7
SAIL-M12GM12W-4-10V	1925351000	B.7
SAIL-M12GM12W-4-2L1.5T	1004310150	B.32
SAIL-M12GM12W-4-2L1.5U	1906410150	B.32
SAIL-M12GM12W-4-2L1.5U	1906410150	B.8
SAIL-M12GM12W-4-2L1.5V	1925420150	B.32
SAIL-M12GM12W-4-2L1.5V	1925420150	B.8
SAIL-M12GM12W-4-2L10U	1906411000	B.8
SAIL-M12GM12W-4-2L10V	1925421000	B.8
SAIL-M12GM12W-4-2L3.0U	1906410300	B.8
SAIL-M12GM12W-4-2L3.0V	1925420300	B.8
SAIL-M12GM12W-4-2L5.0U	1906410500	B.8
SAIL-M12GM12W-4-2L5.0V	1925420500	B.8
SAIL-M12GM12W-4-2LX.XU	1906410000	B.8
SAIL-M12GM12W-4-3.0U	9457310300	B.7
SAIL-M12GM12W-4-3.0V	1925350300	B.7
SAIL-M12GM12W-4-3L1.5U	1963910150	B.32
SAIL-M12GM12W-4-3L1.5V	1963930150	B.32
SAIL-M12GM12W-4-3LW1.5T	1020930150	B.32
SAIL-M12GM12W-4-3LW1.5UGE	1093060150	B.32
SAIL-M12GM12W-4-5.0U	9457310500	B.7
SAIL-M12GM12W-4-5.0V	1925350500	B.7
SAIL-M12GM12W-4B-1.5U	1057910150	B.50
SAIL-M12GM12W-4S1.5U	1059480150	B.30
SAIL-M12GM12W-5-1.5T	1011990150	B.29
SAIL-M12GM12W-5-1.5U	9457270150	B.29
SAIL-M12GM12W-5-1.5U	9457270150	B.7
SAIL-M12GM12W-5-1.5UGE	1093080150	B.29
SAIL-M12GM12W-5-1.5V	1925360150	B.29
SAIL-M12GM12W-5-1.5V	1925360150	B.7
SAIL-M12GM12W-5-10U	9457271000	B.7
SAIL-M12GM12W-5-10V	1925361000	B.7
SAIL-M12GM12W-5-3.0U	9457270300	B.7
SAIL-M12GM12W-5-3.0V	1925360300	B.7
SAIL-M12GM12W-5-5.0U	9457270500	B.7
SAIL-M12GM12W-5-5.0V	1925360500	B.7
SAIL-M12GM12W-5B-1.5U	1057920150	B.50
SAIL-M12GM12W-5S1.5U	1059540150	B.30
SAIL-M12GM12W-8-1.5U	1279450150	B.14
SAIL-M12GM12W-8S1.5U	1279470150	B.15
SAIL-M12GM12W-CD-1.5A	1061990150	M.57
SAIL-M12GM12W-CD-1.5B	1062190150	M.57
SAIL-M12GM12W-K-1.5P	2455270150	D.7
SAIL-M12GM12W-K-10P	2455271000	D.7
SAIL-M12GM12W-K-3.0P	2455270300	D.7
SAIL-M12GM12W-K-5.0P	2455270500	D.7
SAIL-M12GM12W-L-1.5PGR	2455280150	D.5
SAIL-M12GM12W-L-10PGR	2455281000	D.5
SAIL-M12GM12W-L-3.0PGR	2455280300	D.5
SAIL-M12GM12W-L-5.0PGR	2455280500	D.5
SAIL-M12GM12W-PB-1.5D	1062310150	M.5
SAIL-M12GM12W-PB-1.5E	1062380150	M.5
SAIL-M12GM12W-S-1.5P	2050460150	D.9
SAIL-M12GM12W-S-10P	2050461000	D.9
SAIL-M12GM12W-S-3.0P	2050460300	D.9
SAIL-M12GM12W-S3-1.5P	2050100150	D.9
SAIL-M12GM12W-S3-10P	2050101000	D.9
SAIL-M12GM12W-S3-3.0P	2050100300	D.9
SAIL-M12GM12W-S3-5.0P	2050100500	D.9
SAIL-M12GM12W-S-5.0P	2050460500	D.9
SAIL-M12GM12W-T-1.5H	2050910150	D.11

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SAIL-M12GM12W-T-10H	2050911000	D.11
SAIL-M12GM12W-T-10P	2050831000	D.11
SAIL-M12GM12W-T-3.0H	2050910300	D.11
SAIL-M12GM12W-T-3.0P	2050830300	D.11
SAIL-M12GM12W-T-5.0H	2050910500	D.11
SAIL-M12GM12W-T-5.0P	2050830500	D.11
SAIL-M12GM8G-3-1.5U	9457770150	B.33
SAIL-M12GM8G-3-1.5U	9457770150	B.4
SAIL-M12GM8G-3-1.5V	1938170150	B.33
SAIL-M12GM8G-3-1.5V	1938170150	B.4
SAIL-M12GM8G-3-10U	9457771000	B.4
SAIL-M12GM8G-3-10V	1938171000	B.4
SAIL-M12GM8G-3-3.0U	9457770300	B.4
SAIL-M12GM8G-3-3.0V	1938170300	B.4
SAIL-M12GM8G-3-5.0U	9457770500	B.4
SAIL-M12GM8G-3-5.0V	1938170500	B.4
SAIL-M12GM8G-4-1.5U	9456660150	B.33
SAIL-M12GM8G-4-1.5U	9456660150	B.5
SAIL-M12GM8G-4-1.5V	1938200150	B.33
SAIL-M12GM8G-4-1.5V	1938200150	B.5
SAIL-M12GM8G-4-10U	9456661000	B.5
SAIL-M12GM8G-4-10V	1938201000	B.5
SAIL-M12GM8G-4-3.0U	9456660300	B.5
SAIL-M12GM8G-4-3.0V	1938200300	B.5
SAIL-M12GM8G-4-5.0U	9456660500	B.5
SAIL-M12GM8G-4-5.0V	1938200500	B.5
SAIL-M12GM8GR-3-1.5U	1984530150	B.34
SAIL-M12GM8W-3-1.5U	9457980150	B.33
SAIL-M12GM8W-3-1.5U	9457980150	B.5
SAIL-M12GM8W-3-1.5V	1938180150	B.33
SAIL-M12GM8W-3-1.5V	1938180150	B.5
SAIL-M12GM8W-3-10U	9457981000	B.5
SAIL-M12GM8W-3-10V	1938181000	B.5
SAIL-M12GM8W-3-3.0U	9457980300	B.5
SAIL-M12GM8W-3-3.0V	1938180300	B.5
SAIL-M12GM8W-3-5.0U	9457980500	B.5
SAIL-M12GM8W-3-5.0V	1938180500	B.5
SAIL-M12GM8W-3L1.5U	9457760150	B.36
SAIL-M12GM8W-3L1.5U	9457760150	B.5
SAIL-M12GM8W-3L1.5UGE	1093110150	B.36
SAIL-M12GM8W-3L1.5V	1962290150	B.36
SAIL-M12GM8W-3L10U	9457761000	B.5
SAIL-M12GM8W-3L3.0U	9457760300	B.5
SAIL-M12GM8W-3L5.0U	9457760500	B.5
SAIL-M12GM8W-4-1.5U	9456670150	B.33
SAIL-M12GM8W-4-1.5U	9456670150	B.5
SAIL-M12GM8W-4-1.5V	1938210150	B.33
SAIL-M12GM8W-4-1.5V	1938210150	B.5
SAIL-M12GM8W-4-10U	9456671000	B.5
SAIL-M12GM8W-4-10V	1938211000	B.5
SAIL-M12GM8W-4-3.0U	9456670300	B.5
SAIL-M12GM8W-4-3.0V	1938210300	B.5
SAIL-M12GM8W-4-5.0U	9456670500	B.5
SAIL-M12GM8W-4-5.0V	1938210500	B.5
SAIL-M12GM8W-4L1.5U	1906430150	B.36
SAIL-M12GM8W-4L1.5UGE	1093130150	B.36
SAIL-M12GM8W-4L1.5V	1962300150	B.36
SAIL-M12GM8WR-3-1.5U	9457570150	B.34
SAIL-M12GM8WR-3-1.5UGE	1093150150	B.34
SAIL-M12G-PB-1.5D	1873300150	M.4
SAIL-M12G-PB-1.5E	1058530150	M.4
SAIL-M12G-S-1.5P	2050230150	D.8
SAIL-M12G-S-10P	2050231000	D.8
SAIL-M12G-S-3.0P	2050230300	D.8
SAIL-M12G-S3-1.5PK16	2050020150	D.8
SAIL-M12G-S3-10P	2050021000	D.8
SAIL-M12G-S3-3.0P	2050020300	D.8
SAIL-M12G-S3-5.0P	2050020500	D.8
SAIL-M12G-S-5.0P	2050230500	D.8
SAIL-M12G-T-1.5H	2050700150	D.10
SAIL-M12G-T-1.5P	2050640150	D.10
SAIL-M12G-T-10H	2050701000	D.10
SAIL-M12G-T-10P	2050641000	D.10
SAIL-M12G-T-3.0H	2050700300	D.10
SAIL-M12G-T-3.0P	2050640300	D.10
SAIL-M12G-T-5.0H	2050700500	D.10
SAIL-M12G-T-5.0P	2050640500	D.10
SAIL-M12G-TS-5.0U	2617670500	D.12
SAIL-M12G-USB-3.0U	1268520000	B.37
SAIL-M12W-12-1.5U	1311690150	B.14
SAIL-M12W-3-1.5T	1021760150	B.11
SAIL-M12W-3-1.5U	9456690150	B.11
SAIL-M12W-3-1.5U	9456690150	B.4
SAIL-M12W-3-1.5UGE	1093160150	B.11
SAIL-M12W-3-1.5V	1925510150	B.11
SAIL-M12W-3-1.5V	1925510150	B.4
SAIL-M12W-3-10U	9456691000	B.4
SAIL-M12W-3-10V	1925511000	B.4
SAIL-M12W-3-3.0U	9456690300	B.4
SAIL-M12W-3-3.0V	1925510300	B.4
SAIL-M12W-3-5.0U	9456690500	B.4
SAIL-M12W-3-5.0V	1925510500	B.4
SAIL-M12W-3B-1.5U	1057800150	B.49
SAIL-M12W-3S1.5U	1906500150	B.17
SAIL-M12W-4-1.5T	1021790150	B.11
SAIL-M12W-4-1.5U	1906260150	B.11
SAIL-M12W-4-1.5U	1906260150	B.4
SAIL-M12W-4-1.5UGE	1093170150	B.11

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SAIL-M12W-4-10V	1925521000	B.4
SAIL-M12W-4-3.0U	1906260300	B.4
SAIL-M12W-4-3.0V	1925520300	B.4
SAIL-M12W-4-5.0U	1906260500	B.4
SAIL-M12W-4-5.0V	1925520500	B.4
SAIL-M12W-4B-1.5U	1057810150	B.49
SAIL-M12W-4S1.5U	1059650150	B.17
SAIL-M12W-4-X.XU	1906260000	B.4
SAIL-M12W-5-1.5T	1021660150	B.11
SAIL-M12W-5-1.5U	9457670150	B.11
SAIL-M12W-5-1.5U	9457670150	B.4
SAIL-M12W-5-1.5UGE	1093180150	B.11
SAIL-M12W-5-1.5V	1925530150	B.11
SAIL-M12W-5-1.5V	1925530150	B.4
SAIL-M12W-5-10U	9457671000	B.4
SAIL-M12W-5-10V	1925531000	B.4
SAIL-M12W-5-3.0U	9457670300	B.4
SAIL-M12W-5-3.0V	1925530300	B.4
SAIL-M12W-5-5.0U	9457670500	B.4
SAIL-M12W-5-5.0V	1925530500	B.4
SAIL-M12W-5B-1.5U	1057820150	B.49
SAIL-M12W-5S1.5U	1906520150	B.17
SAIL-M12W-8-1.5U	1279420150	B.14
SAIL-M12W-8S1.5U	1276060150	B.15
SAIL-M12W-CD-1.5A	1062220150	M.56
SAIL-M12W-CD-1.5B	1062170150	M.56
SAIL-M12W-K-1.5P	2455230150	D.6
SAIL-M12W-K-10P	2455231000	D.6
SAIL-M12W-K-3.0P	2455230300	D.6
SAIL-M12W-K-5.0P	2455230500	D.6
SAIL-M12W-L-1.5PGR	2455240150	D.4
SAIL-M12W-L-10PGR	2455241000	D.4
SAIL-M12W-L-3.0PGR	2455240300	D.4
SAIL-M12W-L-5.0PGR	2455240500	D.4
SAIL-M12WM12G-3-1.5U	1821050150	B.6
SAIL-M12WM12G-3-10U	1821051000	B.6
SAIL-M12WM12G-3-3.0U	1821050300	B.6
SAIL-M12WM12G-3-5.0U	1821050500	B.6
SAIL-M12WM12G-3B-1.5U	1057870150	B.50
SAIL-M12WM12G-4-1.5U	1071990150	B.6
SAIL-M12WM12G-4-10U	1071991000	B.6
SAIL-M12WM12G-4-3.0U	1071990300	B.6
SAIL-M12WM12G-4-5.0U	1071990500	B.6
SAIL-M12WM12G-4B-1.5U	1057880150	B.50
SAIL-M12WM12G-5-1.5U	9456500150	B.7
SAIL-M12WM12G-5-10U	9456501000	B.7
SAIL-M12WM12G-5-3.0U	9456500300	B.7
SAIL-M12WM12G-5-5.0U	9456500500	B.7
SAIL-M12WM12G-5B-1.5U	1057890150	B.50
SAIL-M12WM12G-K-1.5P	2455310150	D.7
SAIL-M12WM12G-K-10P	2455311000	D.7
SAIL-M12WM12G-K-3.0P	2455310300	D.7
SAIL-M12WM12G-K-5.0P	2455310500	D.7
SAIL-M12WM12G-L-1.5PGR	2455320150	D.5
SAIL-M12WM12G-L-10PGR	2455321000	D.5
SAIL-M12WM12G-L-3.0PGR	2455320300	D.5
SAIL-M12WM12G-L-5.0PGR	2455320500	D.5
SAIL-M12WM12G-S-1.5P	2050350150	D.9
SAIL-M12WM12G-S-10P	2050351000	D.9
SAIL-M12WM12G-S-3.0P	2050350300	D.9
SAIL-M12WM12G-S3-1.5P	2050080150	D.9
SAIL-M12WM12G-S3-10P	2050081000	D.9
SAIL-M12WM12G-S3-3.0P	2050080300	D.9
SAIL-M12WM12G-S3-5.0P	2050080500	D.9
SAIL-M12WM12G-S-5.0P	2050350500	D.9
SAIL-M12WM12G-T-1.5H	2050890150	D.11
SAIL-M12WM12G-T-1.5P	2050820150	D.11
SAIL-M12WM12G-T-10H	2050891000	D.11
SAIL-M12WM12G-T-10P	2050821000	D.11
SAIL-M12WM12G-T-3.0H	2050890300	D.11
SAIL-M12WM12G-T-3.0P	2050820300	D.11
SAIL-M12WM12G-T-5.0H	2050890500	D.11
SAIL-M12WM12G-T-5.0P	2050820500	D.11
SAIL-M12WM12W-3-1.5U	1815670150	B.29
SAIL-M12WM12W-3-1.5U	1815670150	B.7
SAIL-M12WM12W-3-1.5V	1925380150	B.29
SAIL-M12WM12W-3-1.5V	1925380150	B.7
SAIL-M12WM12W-3-10U	1815671000	B.7
SAIL-M12WM12W-3-10V	1925381000	B.7
SAIL-M12WM12W-3-3.0U	1815670300	B.7
SAIL-M12WM12W-3-3.0V	1925380300	B.7
SAIL-M12WM12W-3-5.0U	1815670500	B.7
SAIL-M12WM12W-3-5.0V	1925380500	B.7
SAIL-M12WM12W-3B-1.5U	1061910150	B.50
SAIL-M12WM12W-3S1.5U	1059720150	B.30
SAIL-M12WM12W-4-1.5U	1906310150	B.29
SAIL-M12WM12W-4-1.5U	1906310150	B.7
SAIL-M12WM12W-4-1.5V	1925390150	B.29
SAIL-M12WM12W-4-1.5V	1925390150	B.7
SAIL-M12WM12W-4-10U	1906311000	B.7
SAIL-M12WM12W-4-10V	1925391000	B.7
SAIL-M12WM12W-4-3.0U	1906310300	B.7
SAIL-M12WM12W-4-3.0V	1925390300	B.7
SAIL-M12WM12W-4-5.0U	1906310500	B.7
SAIL-M12WM12W-4-5.0V	1925390500	B.7
SAIL-M12WM12W-4B-1.5U	1061920150	B.50
SAIL-M12WM12W-4S1.5U	1059730150	B.30
SAIL-M12WM12W-4-X.XU	1906310000	B.7
SAIL-M12WM12W-5-1.5U	9457900150	B.29
SAIL-M12WM12W-5-1.5U	9457900150	B.7
SAIL-M12WM12W-5-1.5V	1925400150	B.29
SAIL-M12WM12W-5-1.5V	1925400150	B.7
SAIL-M12WM12W-5-10U	9457901000	B.7
SAIL-M12WM12W-5-10V	1925401000	B.7
SAIL-M12WM12W-5-3.0U	9457900300	B.7
SAIL-M12WM12W-5-3.0V	1925400300	B.7
SAIL-M12WM12W-5-5.0U	9457900500	B.7
SAIL-M12WM12W-5-5.0V	1925400500	B.7
SAIL-M12WM12W-5B-1.5U	1061930150	B.50
SAIL-M12WM12W-5S1.5U	1059740150	B.30
SAIL-M12WM12W-CD-1.5A	1062150150	M.57
SAIL-M12WM12W-CD-1.5B	1062210150	M.57
SAIL-M12WM12W-K-1.5P	2455290150	D.7
SAIL-M12WM12W-K-10P	2455291000	D.7
SAIL-M12WM12W-K-3.0P	2455290300	D.7
SAIL-M12WM12W-K-5.0P	2455290500	D.7
SAIL-M12WM12W-L-1.5PGR	2455300150	D.5
SAIL-M12WM12W-L-10PGR	2455301000	D.5
SAIL-M12WM12W-L-3.0PGR	2455300300	D.5
SAIL-M12WM12W-L-5.0PGR	2455300500	D.5
SAIL-M12WM12W-PB-1.5D	1062330150	M.5
SAIL-M12WM12W-PB-1.5E	1062400150	M.5
SAIL-M12WM12W-S-1.5P	2050470150	D.9
SAIL-M12WM12W-S-10P	2050471000	D.9
SAIL-M12WM12W-S-3.0P	2050470300	D.9
SAIL-M12WM12W-S3-1.5P	2050150150	D.9
SAIL-M12WM12W-S3-10P	2050151000	D.9
SAIL-M12WM12W-S3-3.0P	2050150300	D.9
SAIL-M12WM12W-S3-5.0P	2050150500	D.9
SAIL-M12WM12W-S-5.0P	2050470500	D.9
SAIL-M12WM12W-T-1.5H	2050920150	D.11
SAIL-M12WM12W-T-1.5P	2050860150	D.11
SAIL-M12WM12W-T-10H	2050921000	D.11
SAIL-M12WM12W-T-10P	2050861000	D.11
SAIL-M12WM12W-T-3.0H	2050920300	D.11
SAIL-M12WM12W-T-3.0P	2050860300	D.11
SAIL-M12WM12W-T-5.0H	2050920500	D.11
SAIL-M12WM12W-T-5.0P	2050860500	D.11
SAIL-M12WM8G-3-1.5U	1304740150	B.4
SAIL-M12WM8G-3-3.0U	1304740300	B.4
SAIL-M12WM8G-4-1.5U	1437510150	B.5
SAIL-M12WM8G-4-10U	1437511000	B.5
SAIL-M12WM8G-4-3.0U	1437510300	B.5
SAIL-M12WM8G-4-5.0U	1437510500	B.5
SAIL-M12WM8W-3-1.5U	1906330150	B.33
SAIL-M12WM8W-3-1.5U	1906330150	B.5
SAIL-M12WM8W-3-1.5V	1938190150	B.33
SAIL-M12WM8W-3-1.5V	1938190150	B.5
SAIL-M12WM8W-3-10U	1906331000	B.5
SAIL-M12WM8W-3-10V	1938191000	B.5
SAIL-M12WM8W-3-3.0U	1906330300	B.5
SAIL-M12WM8W-3-3.0V	1938190300	B.5
SAIL-M12WM8W-3-5.0U	1906330500	B.5
SAIL-M12WM8W-3-5.0V	1938190500	B.5
SAIL-M12WM8W-3-X.XU	1906330000	B.5
SAIL-M12WM8W-4-1.5U	1906340150	B.33
SAIL-M12WM8W-4-1.5U	1906340150	B.5
SAIL-M12WM8W-4-1.5V	1938220150	B.33
SAIL-M12WM8W-4-1.5V	1938220150	B.5
SAIL-M12WM8W-4-10U	1906341000	B.5
SAIL-M12WM8W-4-10V	1938221000	B.5
SAIL-M12WM8W-4-3.0U	1906340300	B.5
SAIL-M12WM8W-4-3.0V	1938220300	B.5
SAIL-M12WM8W-4-5.0U	1906340500	B.5
SAIL-M12WM8W-4-5.0V	1938220500	B.5
SAIL-M12WM8W-4-X.XU	1906340000	B.5
SAIL-M12W-PB-1.5D	1061970150	M.4
SAIL-M12W-PB-1.5E	1062340150	M.4
SAIL-M12W-S-1.5P	2050260150	D.8
SAIL-M12W-S-10P	2050261000	D.8
SAIL-M12W-S-3.0P	2050260300	D.8
SAIL-M12W-S3-1.5P	2050050150	D.8
SAIL-M12W-S3-10P	2050051000	D.8
SAIL-M12W-S3-3.0P	2050050300	D.8
SAIL-M12W-S3-5.0P	2050050500	D.8
SAIL-M12W-S-5.0P	2050260500	D.8
SAIL-M12W-T-1.5H	2050710150	D.10
SAIL-M12W-T-1.5P	2050650150	D.10
SAIL-M12W-T-10H	2050711000	D.10
SAIL-M12W-T-10P	2050651000	D.10
SAIL-M12W-T-3.0H	2050710300	D.10
SAIL-M12W-T-3.0P	2050650300	D.10
SAIL-M12W-T-5.0H	2050710500	D.10
SAIL-M12W-T-5.0P	2050650500	D.10
SAIL-M16BW-12-1.5U	1259010150	B.26
SAIL-M23-KSW-7/12	1169930000	L.12
SAIL-M5BG-3P-1.5U	1873290150	B.25
SAIL-M5BG-4P-1.5U	1873250150	B.25
SAIL-M5BW-3P-1.5U	1873260150	B.25
SAIL-M5BW-4P-1.5U	1873270150	B.25
SAIL-M5G-3P-1.5U	1854060150	B.25
SAIL-M5G-4P-1.5U	1871700150	B.25
SAIL-M5W-3P-1.5U	1873280150	B.25
SAIL-M5W-4P-1.5U	1873240150	B.25
SAIL-M8BG-3-1.5U	9457450150	B.19
SAIL-M8BG-3-1.5U	9457450150	B.4
SAIL-M8BG-3-1.5UGE	1093190150	B.19
SAIL-M8BG-3-1.5V	1927240150	B.19
SAIL-M8BG-3-1.5V	1927240150	B.4
SAIL-M8BG-3-10U	9457451000	B.4
SAIL-M8BG-3-10V	1927241000	B.4
SAIL-M8BG-3-3.0U	9457450300	B.4
SAIL-M8BG-3-3.0V	1927240300	B.4
SAIL-M8BG-3-5.0U	9457450500	B.4
SAIL-M8BG-3-5.0V	1927240500	B.4
SAIL-M8BG-3S1.5U	1906600150	B.21
SAIL-M8BG-4-1.5U	9457850150	B.19
SAIL-M8BG-4-1.5U	9457850150	B.5
SAIL-M8BG-4-1.5UGE	1093200150	B.19
SAIL-M8BG-4-1.5V	1927260150	B.19
SAIL-M8BG-4-1.5V	1927260150	B.5
SAIL-M8BG-4-10U	9457851000	B.5
SAIL-M8BG-4-10V	1927261000	B.5
SAIL-M8BG-4-3.0U	9457850300	B.5
SAIL-M8BG-4-3.0V	1927260300	B.5
SAIL-M8BG-4-5.0U	9457850500	B.5
SAIL-M8BG-4-5.0V	1927260500	B.5
SAIL-M8BG-4S1.5U	1906610150	B.21
SAIL-M8BG-4S-1.5U	1981910150	M.58
SAIL-M8BG-4S-10U	1981911000	M.58
SAIL-M8BG-4S-3.0U	1981910300	M.58
SAIL-M8BG-4S-5.0U	1981910500	M.58
SAIL-M8BGR-3-1.5U	1827020150	B.20
SAIL-M8BGR-3-1.5V	1948710150	B.20
SAIL-M8BGR-4-1.5U	1948530150	B.20
SAIL-M8BGR-4-1.5V	1948730150	B.20
SAIL-M8BGS-3-X.XU	9457450000	B.4
SAIL-M8BW-3-1.5U	9457380150	B.19
SAIL-M8BW-3-1.5U	9457380150	B.5
SAIL-M8BW-3-1.5UGE	1093220150	B.19
SAIL-M8BW-3-1.5V	1927320150	B.19
SAIL-M8BW-3-1.5V	1927320150	B.5
SAIL-M8BW-3-10U	9457381000	B.5
SAIL-M8BW-3-10V	1927321000	B.5
SAIL-M8BW-3-3.0U	9457380300	B.5
SAIL-M8BW-3-3.0V	1927320300	B.5
SAIL-M8BW-3-5.0U	9457380500	B.5
SAIL-M8BW-3-5.0V	1927320500	B.5
SAIL-M8BW-3L1.5U	9457460150	B.23
SAIL-M8BW-3L1.5U	9457460150	B.5
SAIL-M8BW-3L1.5UGE	1093210150	B.23
SAIL-M8BW-3L1.5V	1927350150	B.23
SAIL-M8BW-3L1.5V	1927350150	B.5
SAIL-M8BW-3L10U	9457461000	B.5
SAIL-M8BW-3L10V	1927351000	B.5
SAIL-M8BW-3L3.0U	9457460300	B.5
SAIL-M8BW-3L3.0V	1927350300	B.5
SAIL-M8BW-3L5.0U	9457460500	B.5
SAIL-M8BW-3L5.0V	1927350500	B.5
SAIL-M8BW-3S1.5U	1906620150	B.21
SAIL-M8BW-4-1.5U	9456150150	B.19
SAIL-M8BW-4-1.5U	9456150150	B.5
SAIL-M8BW-4-1.5UGE	1093240150	B.19
SAIL-M8BW-4-1.5V	1927340150	B.19
SAIL-M8BW-4-1.5V	1927340150	B.5
SAIL-M8BW-4-10U	9456151000	B.5
SAIL-M8BW-4-10V	1927341000	B.5
SAIL-M8BW-4-3.0U	9456150300	B.5
SAIL-M8BW-4-3.0V	1927340300	B.5
SAIL-M8BW-4-5.0U	9456150500	B.5
SAIL-M8BW-4-5.0V	1927340500	B.5
SAIL-M8BW-4L1.5U	1906400150	B.23
SAIL-M8BW-4L1.5UGE	1093230150	B.23
SAIL-M8BW-4L1.5V	1927360150	B.23
SAIL-M8BW-4S1.5U	1906630150	B.21
SAIL-M8BW-4-X.XU	9456150000	B.5
SAIL-M8BWR-3-1.5U	1827010150	B.20
SAIL-M8BWR-3-1.5V	1948720150	B.20
SAIL-M8BWR-4-1.5U	1948540150	B.20
SAIL-M8BWR-4-1.5V	1948740150	B.20
SAIL-M8BWS-3-X.XU	9457380000	B.5
SAIL-M8G-3-1.5U	1824590150	B.19
SAIL-M8G-3-1.5U	1824590150	B.4
SAIL-M8G-3-1.5V	1927230150	B.19
SAIL-M8G-3-1.5V	1927230150	B.4
SAIL-M8G-3-10U	1824591000	B.4
SAIL-M8G-3-10V	1927231000	B.4
SAIL-M8G-3-3.0U	1824590300	B.4
SAIL-M8G-3-3.0V	1927230300	B.4
SAIL-M8G-3-5.0U	1824590500	B.4
SAIL-M8G-3-5.0V	1927230500	B.4
SAIL-M8G-3S1.5U	1906560150	B.21
SAIL-M8G-3-X.XU	1824590000	B.4
SAIL-M8G-4-1.5U	1906270150	B.19
SAIL-M8G-4-1.5U	1906270150	B.4
SAIL-M8G-4-1.5V	1927250150	B.19
SAIL-M8G-4-1.5V	1927250150	B.4
SAIL-M8G-4-10U	1906271000	B.4
SAIL-M8G-4-10V	1927251000	B.4
SAIL-M8G-4-3.0U	1906270300	B.4
SAIL-M8G-4-3.0V	1927250300	B.4
SAIL-M8G-4-5.0U	1906270500	B.4
SAIL-M8G-4-5.0V	1927250500	B.4
SAIL-M8G-4S0.1UIE	1160820010	M.67
SAIL-M8G-4S0.3UIE	1160820030	M.67
SAIL-M8G-4S0.5UIE	1160820050	M.67
SAIL-M8G-4S1.0UIE	1160820100	M.67
SAIL-M8G-4S1.5U	1906570150	B.21
SAIL-M8G-4S10UIE	1160821000	M.67
SAIL-M8G-4S2.0UIE	1160820200	M.67
SAIL-M8G-4S3.0UIE	1160820300	M.67
SAIL-M8G-4S4.0UIE	1160820400	M.67
SAIL-M8G-4S5.0UIE	1160820500	M.67
SAIL-M8G-4S7.5UIE	1160820750	M.67
SAIL-M8G-4-X.XU	1906270000	B.4
SAIL-M8GM12G-3-1.5U	1937950150	B.6
SAIL-M8GM12G-3-1.5V	1938230150	B.6
SAIL-M8GM12G-3-10U	1937951000	B.6
SAIL-M8GM12G-3-10V	1938231000	B.6
SAIL-M8GM12G-3-3.0U	1937950300	B.6
SAIL-M8GM12G-3-3.0V	1938230300	B.6
SAIL-M8GM12G-3-5.0U	1937950500	B.6
SAIL-M8GM12G-3-5.0V	1938230500	B.6
SAIL-M8GM12G-4-1.5U	1937980150	B.6
SAIL-M8GM12G-4-1.5V	1938260150	B.6
SAIL-M8GM12G-4-10U	1937981000	B.6
SAIL-M8GM12G-4-10V	1938261000	B.6
SAIL-M8GM12G-4-3.0U	1937980300	B.6
SAIL-M8GM12G-4-3.0V	1938260300	B.6
SAIL-M8GM12G-4-5.0U	1937980500	B.6
SAIL-M8GM12G-4-5.0V	1938260500	B.6
SAIL-M8GM12W-3-1.5U	1937960150	B.7
SAIL-M8GM12W-3-1.5V	1938240150	B.7
SAIL-M8GM12W-3-10U	1937961000	B.7
SAIL-M8GM12W-3-10V	1938241000	B.7
SAIL-M8GM12W-3-3.0U	1937960300	B.7
SAIL-M8GM12W-3-3.0V	1938240300	B.7
SAIL-M8GM12W-3-5.0U	1937960500	B.7
SAIL-M8GM12W-3-5.0V	1938240500	B.7
SAIL-M8GM12W-4-1.5U	1937990150	B.7
SAIL-M8GM12W-4-1.5V	1938270150	B.7
SAIL-M8GM12W-4-10U	1937991000	B.7
SAIL-M8GM12W-4-10V	1938271000	B.7
SAIL-M8GM12W-4-3.0U	1937990300	B.7
SAIL-M8GM12W-4-3.0V	1938270300	B.7
SAIL-M8GM12W-4-5.0U	1937990500	B.7
SAIL-M8GM12W-4-5.0V	1938270500	B.7
SAIL-M8GM8G-3-1.5U	1824570150	B.38
SAIL-M8GM8G-3-1.5U	1824570150	B.4
SAIL-M8GM8G-3-1.5UGE	1104470150	B.38
SAIL-M8GM8G-3-1.5V	1927150150	B.38
SAIL-M8GM8G-3-1.5V	1927150150	B.4
SAIL-M8GM8G-3-10U	1824571000	B.4
SAIL-M8GM8G-3-10V	1927151000	B.4
SAIL-M8GM8G-3-3.0U	1824570300	B.4
SAIL-M8GM8G-3-3.0V	1927150300	B.4
SAIL-M8GM8G-3-5.0U	1824570500	B.4
SAIL-M8GM8G-3-5.0V	1927150500	B.4
SAIL-M8GM8G-3L1.0U	1550230100	B.40
SAIL-M8GM8G-3-X.XU	1824570000	B.4
SAIL-M8GM8G-4-1.5U	1880470150	B.38
SAIL-M8GM8G-4-1.5U	1880470150	B.5
SAIL-M8GM8G-4-1.5UGE	1469360150	B.38
SAIL-M8GM8G-4-1.5V	1927160150	B.38
SAIL-M8GM8G-4-1.5V	1927160150	B.5
SAIL-M8GM8G-4-10U	1880471000	B.5
SAIL-M8GM8G-4-10V	1927161000	B.5
SAIL-M8GM8G-4-3.0U	1880470300	B.5
SAIL-M8GM8G-4-3.0V	1927160300	B.5
SAIL-M8GM8G-4-5.0U	1880470500	B.5
SAIL-M8GM8G-4-5.0V	1927160500	B.5
SAIL-M8GM8G-4S-0.3U	1981900030	M.58
SAIL-M8GM8G-4S-1.0U	1981900100	M.58
SAIL-M8GM8G-4S-1.5U	1981900150	M.58
SAIL-M8GM8G-4S-10U	1981901000	M.58
SAIL-M8GM8G-4S-15U	1981901500	M.58
SAIL-M8GM8G-4S-20U	1981902000	M.58
SAIL-M8GM8G-4S-3.0U	1981900300	M.58
SAIL-M8GM8G-4S-5.0U	1981900500	M.58
SAIL-M8GM8G-4-X.XU	1880470000	B.5
SAIL-M8GM8GR-3-1.5U	1948470150	B.39
SAIL-M8GM8GR-3-1.5V	1948650150	B.39
SAIL-M8GM8GR-4-1.5U	1948500150	B.39
SAIL-M8GM8GR-4-1.5V	1948680150	B.39
SAIL-M8GM8SG-4S0.1UIE	1160930010	M.67
SAIL-M8GM8SG-4S0.3UIE	1160930030	M.67
SAIL-M8GM8SG-4S0.5UIE	1160930050	M.67
SAIL-M8GM8SG-4S1.0UIE	1160930100	M.67
SAIL-M8GM8SG-4S15UIE	1160931500	M.67
SAIL-M8GM8SG-4S2.0UIE	1160930200	M.67
SAIL-M8GM8SG-4S20UIE	1160932000	M.67
SAIL-M8GM8SG-4S3.0UIE	1160930300	M.67
SAIL-M8GM8SG-4S30UIE	1160933000	M.67
SAIL-M8GM8SG-4S4.0UIE	1160930400	M.67
SAIL-M8GM8SG-4S40UIE	1160934000	M.67
SAIL-M8GM8SG-4S5.0UIE	1160930500	M.67
SAIL-M8GM8SG-4S50UIE	1160935000	M.67
SAIL-M8GM8SG-4S7.5UIE	1160930750	M.67
SAIL-M8GM8W-3-1.5U	1824580150	B.38
SAIL-M8GM8W-3-1.5U	1824580150	B.5
SAIL-M8GM8W-3-1.5V	1927170150	B.38
SAIL-M8GM8W-3-1.5V	1927170150	B.5
SAIL-M8GM8W-3-10U	1824581000	B.5

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SAIL-M8GM8W-3-10V	1927171000	B.5
SAIL-M8GM8W-3-3.0U	1824580300	B.5
SAIL-M8GM8W-3-3.0V	1927170300	B.5
SAIL-M8GM8W-3-5.0U	1824580500	B.5
SAIL-M8GM8W-3-5.0V	1927170500	B.5
SAIL-M8GM8W-3L1.5U	1877250150	B.40
SAIL-M8GM8W-3L1.5U	1877250150	B.5
SAIL-M8GM8W-3L1.5V	1927190150	B.40
SAIL-M8GM8W-3L1.5V	1927190150	B.5
SAIL-M8GM8W-3L10U	1877251000	B.5
SAIL-M8GM8W-3L10V	1927191000	B.5
SAIL-M8GM8W-3L3.0U	1877250300	B.5
SAIL-M8GM8W-3L3.0V	1927190300	B.5
SAIL-M8GM8W-3L5.0U	1877250500	B.5
SAIL-M8GM8W-3L5.0V	1927190500	B.5
SAIL-M8GM8W-3LX.XU	1877250000	B.5
SAIL-M8GM8W-3-X.XU	1824580000	B.5
SAIL-M8GM8W-4-1.5U	1857660150	B.38
SAIL-M8GM8W-4-1.5U	1857660150	B.5
SAIL-M8GM8W-4-1.5V	1927180150	B.38
SAIL-M8GM8W-4-1.5V	1927180150	B.5
SAIL-M8GM8W-4-10U	1857661000	B.5
SAIL-M8GM8W-4-10V	1927181000	B.5
SAIL-M8GM8W-4-3.0U	1857660300	B.5
SAIL-M8GM8W-4-3.0V	1927180300	B.5
SAIL-M8GM8W-4-5.0U	1857660500	B.5
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SAIL-M8GM8W-4L1.5U	1906450150	B.40
SAIL-M8GM8W-4L1.5V	1927200150	B.40
SAIL-M8GM8W-4-X.XU	1857660000	B.5
SAIL-M8GM8WR-3-1.5U	1948480150	B.39
SAIL-M8GM8WR-3-1.5V	1948660150	B.39
SAIL-M8GM8WR-4-1.5U	1948510150	B.39
SAIL-M8GM8WR-4-1.5V	1948690150	B.39
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SAIL-M8GRJ45-4S2.0UIE	1201210200	M.67
SAIL-M8GRJ45-4S5.0UIE	1201210500	M.67
SAIL-M8GRJ45-4S7.5UIE	1201210750	M.67
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SAIL-M8W-3-1.5V	1927310150	B.19
SAIL-M8W-3-1.5V	1927310150	B.4
SAIL-M8W-3-10U	1857551000	B.4
SAIL-M8W-3-10V	1927311000	B.4
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SAIL-M8W-3-3.0V	1927310300	B.4
SAIL-M8W-3-5.0U	1857550500	B.4
SAIL-M8W-3-5.0V	1927310500	B.4
SAIL-M8W-3S1.5U	1906580150	B.21
SAIL-M8W-3-X.XU	1857550000	B.4
SAIL-M8W-4-1.5U	1857560150	B.19
SAIL-M8W-4-1.5U	1857560150	B.4
SAIL-M8W-4-1.5V	1927330150	B.19
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SAIP-M12BG-5-1.5U	1108750150	B.12
SAIP-M12BW-3-1.5U	1108770150	B.12
SAIP-M12BW-4-1.5U	1108780150	B.12
SAIP-M12BW-5-1.5U	1108790150	B.12
SAIP-M12G-3-1.5U	1108800150	B.12
SAIP-M12G-4-1.5U	1108810150	B.12
SAIP-M12G-5-1.5U	1108820150	B.12
SAIP-M12GM8W-3-1.5U	1220620150	B.35
SAIP-M12W-3-1.5U	1108670150	B.12
SAIP-M12W-4-1.5U	1108680150	B.12
SAIP-M12W-5-1.5U	1108690150	B.12
SAIP-M8BG-3-1.5U	1382970150	B.22
SAIP-M8BG-4-1.5U	1382990150	B.22
SAIP-M8BW-3-1.5U	1382980150	B.22
SAIP-M8BW-3L1.5U	1383010150	B.24
SAIP-M8BW-4-1.5U	1383000150	B.22
SAIS 5/9-VA	1920700000	C.25
SAIS 5/9-VA	1920700000	E.23
SAIS 5/9-VA	1920700000	M.32
SAIS 5/9-VA D-COD	1920700001	C.25
SAIS 5/9-VA D-COD	1920700001	E.23
SAIS 5/9-VA D-COD	1920700001	M.77
SAIS 5/9-VA-B-COD	1920720000	C.25
SAIS 5/9-VA-B-COD	1920720000	E.23
SAIS 5/9-VA-B-COD	1920720000	M.10
SAIS-12/9-(TL)	1924950000	C.18
SAIS-12/9-(TL)	1924950000	C.5
SAIS-2-IDC-M12B-COD	1864730000	C.31
SAIS-2-IDC-M12B-COD	1864730000	M.12
SAIS-3/11-7/8	1291880000	K.7
SAIS-3/7	1021470000	C.5
SAIS-3/7	1021470000	C.7
SAIS-3/9	1021480000	C.5
SAIS-3/9	1021480000	C.7
SAIS-3/9-7/8	1291870000	K.6
SAIS-3+PE/11-S-COD	1391990000	D.15
SAIS-3-4-5-IDC(0.75)M12	1852720000	C.30
SAIS-3-IDC M8 SMALL	1784040001	C.33
SAIS-3-IDC M8 SMALL	1784040001	C.6
SAIS-4/11-1.5	1353700000	D.14
SAIS-4/11-7/8	1291950000	K.7
SAIS-4/11-T-COD	1391970000	D.16
SAIS-4/7	9457550000	C.5
SAIS-4/7	9457550000	C.7
SAIS-4/7-(KV)	1921060000	C.10
SAIS-4/9	1807340000	C.5
SAIS-4/9	1807340000	C.7
SAIS-4/9-7/8	1808840000	K.6
SAIS-4/9-7/8	1808840000	M.82
SAIS-4-IDC (0,75) M12	1852740000	C.30
SAIS-4-IDC (0,75) M12	1852740000	C.5
SAIS-4-IDC M12	1781550000	C.29

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SAIS-4-IDC M12 SMALL	1781550001	C.5
SAIS-4-IDC M8 small	1784060001	C.33
SAIS-4-IDC M8 small	1784060001	C.6
SAIS-5/11-1.5	1353740000	D.14
SAIS-5/11-7/8	1291970000	K.7
SAIS-5/7	9456940000	C.5
SAIS-5/7	9456940000	C.8
SAIS-5/7-(KV)	1921050000	C.10
SAIS-5/7-ZF	1906390000	C.24
SAIS-5/7-ZF	1906390000	C.5
SAIS-5/9	1807350000	C.5
SAIS-5/9	1807350000	C.8
SAIS-5/9-(KV)	1007080000	C.10
SAIS-5/9-7/8	1301220000	K.6
SAIS-5/9-ZF	1044700000	C.24
SAIS-8/9	1836970000	C.5
SAIS-8/9	1836970000	C.8
SAIS-8/9-KV	1461930000	C.10
SAI-SA-3-IDC	9457720000	E.18
SAI-SA-4-IDC	1766810000	E.18
SAISC-5-18/28-4/9CG	2672410000	C.34
SAISC-D-18/28-4/9CG	2664810000	C.35
SAISC-D-PN-6.5-C5	1380610000	C.37
SAISC-D-PN-6.5-C5	1380610000	M.79
SAISC-D-RR-6.6-C5	1380560000	C.37
SAISC-D-RR-6.6-C5	1380560000	M.79
SAISC-D-RR-7.3-C5	1380540000	C.37
SAISC-D-RR-7.3-C5	1380540000	M.79
SAISC-D-RR-8.3-C5	1380580000	C.37
SAISC-D-RR-8.3-C5	1380580000	M.79
SAISC-M-4/8S-M12-D-COD	1467840000	M.78
SAISC-M-5S-M12-L-COD	2531020000	D.18
SAI-SCREWTY BOX	1939180000	N.6
SAI-SCREWTY TOOL BOX	1939170000	N.6
SAISC-WDF-D-18/28-4/9CG	2664790000	C.35
SAI-SK M12 MT	1802750000	C.46
SAI-SK M5	1855310000	C.46
SAI-SK M8	1802760000	C.46
SAI-SK STECKER M12	1781520000	C.46
SAI-SK-M12	9456050000	C.46
SAI-SK-M12 BU	8425960000	C.46
SAI-SK-M12 IDC	1794850000	C.46
SAI-SK-M12 IDC	1794850000	E.19
SAI-SK-M12-UNI 2029	2330260000	C.46
SAISM 5/8S M12 5P B-COD	1784790000	C.13
SAISM 5/8S M12 5P B-COD	1784790000	C.5
SAISM 5/8S M12 5P B-COD	1784790000	M.11
SAIS-M16-12/9	1548810000	C.39
SAIS-M16-16/9	1548820000	C.39
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SAIS-M16-6/9	1304390000	C.39
SAIS-M16-7/9	1118010000	C.39
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SAIS-M23-12P-AN-1,0M	1906290100	L.36
SAIS-M23-12P-ST-1,0M	1906280100	L.36
SAIS-M23-19P-AN-1,0M	1818090100	L.36
SAIS-M23-19P-ST-1,0M	1818160100	L.36
SAISM-3/9S-M8	1467550000	C.16
SAISM-4/8S-M12 4P D-ZF	1892120001	C.26
SAISM-4/8S-M12 4P D-ZF	1892120001	C.5
SAISM-4/8S-M12-4P D-COD	1892120000	C.14
SAISM-4/8S-M12-4P D-COD	1892120000	C.5
SAISM-4/8S-M12-4P D-COD	1892120000	M.76
SAISM-4/9S-M8	1467570000	C.16
SAIS-M-4S-IDC-M12-D-COD	2544780000	C.32
SAISM-5/6S M12 5P A-COD	1191030000	C.5
SAIS-M-5/8S M12 5P A-COD	1784740000	C.11
SAIS-M-5/8S M12 5P A-COD	1784740000	C.5
SAIS-M-5/8S M12 5P A-COD	1784740000	M.31
SAIS-M-5/8S M12 5P A-COD	1784740000	M.60
SAIS-M-5S-IDC-M12-L-COD	2530750000	D.17
SAISM-8/11S-M12	1118910000	C.12
SAISM-8/9S-M12	1258940000	C.12
SAIS-M8-3P	1803860000	C.15
SAIS-M8-3P	1803860000	C.6
SAIS-M8-4P	1803850000	C.15
SAIS-M8-4P	1803850000	C.6
SAISM-M8-3P-(IF)	1010060000	C.17
SAISM-M8-3P-(IF)	1010060000	C.6
SAISM-M8-3P(TL)	1921030000	C.19
SAISM-M8-3P(TL)	1921030000	C.6
SAISM-M8-4P-(IF)	1010070000	C.17
SAISM-M8-4P-(IF)	1010070000	C.6
SAISM-M8-4P(TL)	1921040000	C.19
SAISM-M8-4P(TL)	1921040000	C.6
SAISP-4A-4/8-M12	2681480000	C.21
SAISP-5A-4/8-M12	2681560000	C.21
SAISP-M-4A-4/8-M12	2681520000	C.22
SAISP-M-4D-4/8-M12	2681680000	C.23
SAISP-M-5A-4/8-M12	2681600000	C.22
SAISP-M-5B-4/8-M12	2681640000	C.23
SAI-SSA-PG7	1938300000	C.66
SAI-SUB-D 9 SK35	1551080000	M.66
SAISW- 5/9	1807370000	C.5
SAISW- 5/9	1807370000	C.8
SAISW-3/11-7/8	1291900000	K.7
SAISW-3/7	1021280000	C.5
SAISW-3/7	1021280000	C.7
SAISW-3/9	1021290000	C.7
SAISW-3/9-7/8	1291890000	K.6
SAISW-3+PE/11-S-COD	1467860000	D.15
SAISW-4/11-1.5	1467660000	D.14
SAISW-4/11-7/8	1292040000	K.7
SAISW-4/11-T-COD	1467880000	D.16
SAISW-4/7	9457290000	C.5
SAISW-4/7	9457290000	C.7
SAISW-4/7-(KV)	1962620000	C.10
SAISW-4/8S-M12 4P D-ZF	1803930001	C.26
SAISW-4/8S-M12 4P D-ZF	1803930001	C.5
SAISW-4/8S-M12-4P D-COD	1160550000	M.76
SAISW-4/9	1807360000	C.5
SAISW-4/9	1807360000	C.7
SAISW-4/9-7/8	1808830000	K.6
SAISW-4/9-7/8	1808830000	M.82
SAISW-4-IDC M12	1812870000	C.30
SAISW-5/11-1.5	1467680000	D.14
SAISW-5/11-7/8	1291990000	K.7
SAISW-5/7	9456950000	C.5
SAISW-5/7	9456950000	C.8
SAISW-5/7-(KV)	1962610000	C.10
SAISW-5/9-(KV)	1007060000	C.10
SAISW-5/9-7/8	1291980000	K.6
SAISWC-5-18/28-4/9CG	2672430000	C.34
SAISWC-M-4/8S-M12-D-COD	1467850000	M.78
SAIS-WDF-3+PE-M20-S-COD	1460290000	D.21
SAIS-WDF-4-M20	1383020000	D.20
SAIS-WDF-4-M20-T-COD	1392710000	D.21
SAIS-WDF-5-M20	1383030000	D.20
SAIS-WDF-8-M20	1383040000	D.20
SAISW-M-4/8 M12	1803930000	C.11
SAISW-M-4/8 M12	1803930000	C.5
SAISW-M-4/8 M12	1803930000	M.31
SAISW-M-5/8 M12	1803940000	C.11
SAISW-M-5/8 M12	1803940000	C.5
SAISW-M-5/8 M12	1803940000	M.31
SAISW-M-5/8 M12	1803940000	M.60
SAISW-M-5/8 M12 B-COD	1944570000	C.13
SAISW-M-5/8 M12 B-COD	1944570000	C.5
SAISW-M-5/8 M12 B-COD	1944570000	M.11
SAISW-M8-3P(TL)	1920990000	C.20
SAISW-M8-3P(TL)	1920990000	C.6
SAISW-M8-4P(TL)	1921000000	C.20
SAISW-M8-4P(TL)	1921000000	C.6
SAISWP-4A-4/8-M12	2681490000	C.21
SAISWP-5A-4/8-M12	2681570000	C.21
SAISWP-M-4A-4/8-M12	2681530000	C.22
SAISWP-M-4D-4/8-M12	2681690000	C.23
SAISWP-M-5A-4/8-M12	2681610000	C.22
SAISWP-M-5B-4/8-M12	2681650000	C.23
SAIS-ZW-5	9457540000	C.9
SAIS-ZWW	1837560000	C.9
SAI-T-5-M12/M12 B-COD	1057940000	C.43
SAI-T-5S-PARA	1009370000	C.43
SAI-T-M12-S-COD	2616430000	D.27
SAI-T-M12-T-COD	2616440000	D.27
SAI-TMCDC	1381710000	N.12
SAI-TMCGK	1381670000	N.13
SAI-TMC-P4	1381680000	N.13
SAI-TMC-PD	1381700000	N.13
SAI-TMCSK	1381690000	N.13
SAI-TS35 MF	1917400000	E.37
SAIV-M12BG-2/4-1.5U	1939410150	B.13
SAIV-M12BG-4-1.5U	9457950150	B.13
SAIV-M12BW-2/4-1.5U	1939370150	B.13
SAIV-M12BW-4-1.5U	9457960150	B.13
SAI-WDF 5P B M12 K	2485310000	C.45
SAI-WDF 5P M12 K	2427060000	C.45
SAI-Y-3/3 M8-M8	1524700000	C.41
SAI-Y-3/3 M8-M8 U	1550620000	C.42
SAI-Y-4/3 M8-M8	1524720000	C.42
SAI-Y-4-4/2-4 M12/8	1783420000	C.41
SAI-Y-4S-M12/M12	1060730000	C.40
SAI-Y-5 AND 2M12	1515140000	C.41
SAI-Y-5S B2-4 2M12	1783410000	C.40
SAI-Y-5S- M12/M12	1826880000	C.40
SAI-Y-5S M12/M12 2Bo	1881710000	C.41
SAI-Y-5S PARA 2M12	1783430000	C.40
SAI-Y-5S PARA 2M12	1783430000	H.9
SAI-Y-5-SO M12/8	1771290000	C.41
SAI-Y-7/8 3P	1413920000	K.12
SAI-Y-7/8 4P	1413930000	K.12
SAI-Y-7/8 5P	1413940000	K.12
SCREWTY- M12	1900000000	M.68
SCREWTY- M12	1900000000	M.69
SCREWTY- M12	1900000000	N.5
SCREWTY- M12 F	1900020000	N.5
SCREWTY M12 KO O. SD	1900100000	N.5
SCREWTY M12F KO O. SD	1900120000	N.5
SCREWTY M23	1981560000	N.5
SCREWTY- M8	1900010000	N.5
SCREWTY- M8 F	1900030000	N.5
SCREWTY M8 KO O. SD	1900110000	N.5
SCREWTY M8F KO O. SD	1900130000	N.5
SCREWTY SET	1910000000	M.68
SCREWTY SET	1910000000	M.69
SCREWTY SET	1910000000	N.5
SCREWTY SET -DM	1920000000	M.68
SCREWTY SET -DM	1920000000	M.69
SCREWTY SET -DM	1920000000	N.5
SCREWTY SW10	1254640000	N.5
SCREWTY SW12	2598970000	N.5
SCREWTY SW13	1254650000	N.5
SCREWTY SW15	1290830000	N.5
SCREWTY SW17	1254660000	N.5
SCREWTY SW18	1254670000	N.5
SCREWTY SW19	1254680000	N.5
SCREWTY SW9	1254630000	N.5
SCREWTY-M12 F-DM	1900021000	N.5
SCREWTY-M12-DM	1900001000	E.19
SCREWTY-M12-DM	1900001000	H.9
SCREWTY-M12-DM	1900001000	M.68
SCREWTY-M12-DM	1900001000	M.69
SCREWTY-M12-DM	1900001000	N.5
SCREWTY-M8 F-DM	1900031000	N.5
SCREWTY-M8-DM	1900011000	N.5
SFC 0/12 MC NE BL	1813170000	N.17
SFC 0/12 MC NE GE	1813160000	N.17
SFC 0/12 MC NE RT	1813150000	N.17
SFC 0/12 MC NE WS	1813130000	N.17
SFC 0/12 MC SDR	1813180000	N.17
SFC 0/21 MC NE BL	1813220000	N.17
SFC 0/21 MC NE GE	1813210000	N.17
SFC 0/21 MC NE RT	1813200000	N.17
SFC 0/21 MC NE WS	1813190000	N.17
SFC 0/21 MC SDR	1813230000	N.17
SFC 0/30 MC NE BL	1813270000	N.17
SFC 0/30 MC NE GE	1813260000	N.17
SFC 0/30 MC NE RT	1813250000	N.17
SFC 0/30 MC NE WS	1813240000	N.17
SFC 0/30 MC SDR	1813280000	N.17
SFC 1/12 MC NE BL	1747320002	N.17
SFC 1/12 MC NE GE	1747320004	N.17
SFC 1/12 MC NE RT	1747320003	N.17
SFC 1/12 MC NE WS	1747320001	N.17
SFC 1/12 MC SDR	1752720000	N.17
SFC 1/21 MC NE BL	1779080002	N.17
SFC 1/21 MC NE GE	1779080004	N.17
SFC 1/21 MC NE RT	1779080003	N.17
SFC 1/21 MC NE WS	1779080001	N.17
SFC 1/21 MC SDR	1779090000	N.17
SFC 1/30 MC NE BL	1805720000	N.17
SFC 1/30 MC NE GE	1805730000	N.17
SFC 1/30 MC NE RT	1805740000	N.17
SFC 1/30 MC NE WS	1805760000	N.17
SFC 1/30 MC SDR	1805750000	N.17
SFC 2.5/12 MC NE BL	1062030000	N.17
SFC 2.5/12 MC NE GE	1062010000	N.17
SFC 2.5/12 MC NE RT	1062020000	N.17
SFC 2.5/12 MC NE WS	1062000000	N.17
SFC 2.5/12 MC SDR	1062040000	N.17
SFC 2.5/21 MC NE BL	1062090000	N.17
SFC 2.5/21 MC NE GE	1062070000	N.17
SFC 2.5/21 MC NE RT	1062080000	N.17
SFC 2.5/21 MC NE WS	1062050000	N.17
SFC 2.5/21 MC SDR	1062110000	N.17
SFC 2/12 MC NE BL	1758320002	N.17
SFC 2/12 MC NE GE	1758320004	N.17
SFC 2/12 MC NE RT	1758320003	N.17
SFC 2/12 MC NE WS	1758320001	N.17
SFC 2/12 MC SDR	1763480000	N.17
SFC 2/21 MC NE BL	1805770000	N.17
SFC 2/21 MC NE GE	1805780000	N.17
SFC 2/21 MC NE RT	1805790000	N.17
SFC 2/21 MC NE WS	1805810000	N.17
SFC 2/21 MC SDR	1805800000	N.17
SFC 2/30 MC NE BL	1805820000	N.17
SFC 2/30 MC NE GE	1805830000	N.17
SFC 2/30 MC NE RT	1805850000	N.17
SFC 2/30 MC NE WS	1805870000	N.17
SFC 2/30 MC SDR	1805860000	N.17
SFC 3/12 MC NE BL	1025250000	N.17
SFC 3/12 MC NE GE	1025230000	N.17
SFC 3/12 MC NE RT	1025240000	N.17
SFC 3/12 MC NE WS	1025220000	N.17
SFC 3/12 MC SDR	1025550000	N.17
SFC 3/21 MC NE BL	1025300000	N.17
SFC 3/21 MC NE GE	1025270000	N.17
SFC 3/21 MC NE RT	1025290000	N.17
SFC 3/21 MC NE WS	1025260000	N.17
SFC 3/21 MC SDR	1025560000	N.17
SFC 3/30 MC NE BL	1025340000	N.17
SFC 3/30 MC NE GE	1025320000	N.17
SFC 3/30 MC NE RT	1025330000	N.17
SFC 3/30 MC NE WS	1025310000	N.17
SFC 3/30 MC SDR	1025570000	N.17
STRIPAX	9005000000	N.9
STRIPAX 16	9005610000	N.9
STRIPAX ZERT	9017330000	N.9
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THM MMP	2430920000	N.23
THM MMP CASE	2457760000	N.23
THM MMP CUTTER	1331600000	N.23
THM MMP EXT.RH	1302920000	N.23
THM MMP PERFORATOR	1416330000	N.23
TM 203/18 V0	1798480000	N.18
TM 4/12 HF/HB	1719840000	M.70
TM 4/12 HF/HB	1719840000	M.71
TM 4/12 HF/HB	1719840000	M.74
TM 4/12 HF/HB	1719840000	M.75
TM 4/18 HF/HB	1719850000	M.70
TM 4/18 HF/HB	1719850000	M.71
TM 4/18 HF/HB	1719850000	M.74
TM 4/18 HF/HB	1719850000	M.75
TM 4/18 HF/HB	1719850000	N.18
TM-I 12 MC NE GE	1718411687	M.68
TM-I 12 MC NE GE	1718411687	M.69
TM-I 12 MC NE GE	1718411687	M.70
TM-I 12 MC NE GE	1718411687	M.71
TM-I 12 MC NE GE	1718411687	M.72
TM-I 12 MC NE GE	1718411687	M.73
TM-I 12 MC NE GE	1718411687	M.74
TM-I 12 MC NE GE	1718411687	M.75
TM-I 18 MC NE GE	1718431687	M.68
TM-I 18 MC NE GE	1718431687	M.69
TM-I 18 MC NE GE	1718431687	M.70
TM-I 18 MC NE GE	1718431687	M.71
TM-I 18 MC NE GE	1718431687	M.72
TM-I 18 MC NE GE	1718431687	M.73
TM-I 18 MC NE GE	1718431687	M.74
TM-I 18 MC NE GE	1718431687	M.75
TM-I 18 MC NE GE	1718431687	N.18
TM-I 18 MC NE WS	1718431044	N.18
VG M16 - MS 1/EMV	1909500000	M.83
VG M16-1/K68	1909860000	M.83
VG M16-1/MS68	1909910000	M.83
VP M16-EXE SW	1737070000	M.83
VP M16-MS65	1777730000	M.83
WIL-145-W-M12G-0.3U-S	2535770000	G.6
WIL-145-W-XXXX-5.0U-S	2535800000	G.6
WIL-240-B-M12GM12G-0.3U-S	2576970000	G.10
WIL-240-RGBW-M12G-0.3U-S	2635090000	G.12
WIL-240-R-M12GM12G-0.3U-S	2576980000	G.11
WIL-240-RYG-M12G-0.3U-S	2625240000	G.11
WIL-240-W-M12GM12G-0.3U-S	2576960000	G.10
WIL-240-WW27-M12G-0.3U-S	2633830000	G.13
WIL-240-WW40-M12G-0.3U-S	2617810000	G.13
WIL-240-WW57-M12G-0.3U-S	2614400000	G.14
WIL-240-W-Z12V-5.0U-S-M	2548620000	G.15
WIL-350-W-M12G-0.3U-S	2535810000	G.6
WIL-350-W-XXXX-5.0U-S	2535820000	G.6
WIL-450-W-M12G-0.3U-S	2535830000	G.7
WIL-450-W-XXXX-5.0U-S	2535840000	G.7
WIL-555-W-M12G-0.3U-S	2535850000	G.7
WIL-555-W-XXXX-5.0U-S	2535860000	G.7
WIL-655-W-M12G-0.3U-S	2535870000	G.8
WIL-655-W-XXXX-5.0U-S	2535880000	G.8
WIL-765-W-M12G-0.3U-S	2535890000	G.8
WIL-765-W-XXXX-5.0U-S	2535900000	G.8
WIL-860-W-M12G-0.3U-S	2535910000	G.9
WIL-860-W-XXXX-5.0U-S	2535920000	G.9
WIL-BM-JP-M12-3.0U	2537710000	G.17
WIL-BM-SK	2537720000	G.16
WIL-BM-SK-M12-3.0U	2537700000	G.16
WIL-MAGNET	2526810000	G.19
WIL-NT-STANDARD	2598350000	G.18
WIL-SCHWENKHALTER	2614220000	G.19
WIL-STANDARD-0.3-SCREW-SW-BLU	2436350000	G.10
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WIL-STANDARD-1.5-SCREW-OR-WHI	2527960000	G.4
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WIL-STANDARD-10-MAG-OR-WHI	2528030000	G.5
WIL-STANDARD-10-MAG-SW-WHI	2527950000	G.5
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WIL-STANDARD-3.0-SCREW-OR-WHI	2527970000	G.4
WIL-STANDARD-3.0-SCREW-SW-WHI	2527890000	G.4
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WIL-STANDARD-5.0-SCREW-SW-WHI	2527900000	G.4
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1004330150	SAIL-M12BW-3L1.5T	B.16
1005270150	SAIL-ZW-M12BW-3-1.5U	B.43
1005460150	SAIL-ZW-M12BG-3-1.5U	B.43
1007000150	SAIL-M12BW-4-2L1.5T	B.16
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1009370000	SAI-T-5S-PARA	C.43

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1010070000	SAISM-M8-4P-(IF)	C.17
1010070000	SAISM-M8-4P-(IF)	C.6
1010080000	SAIBM-M8-3P-(IF)	C.17
1010080000	SAIBM-M8-3P-(IF)	C.6
1010090000	SAIBM-M8-4P-(IF)	C.17
1010090000	SAIBM-M8-4P-(IF)	C.6
1010840015	IE-C5DB4RE0015MCSXXX-X	M.73
1010840030	IE-C5DB4RE0030MCSXXX-X	M.73
1010840050	IE-C5DB4RE0050MCSXXX-X	M.73
1010840100	IE-C5DB4RE0100MCSXXX-X	M.73
1010850015	IE-C5DB4RE0015MCSMCS-E	M.72
1010850030	IE-C5DB4RE0030MCSMCS-E	M.72
1010850050	IE-C5DB4RE0050MCSMCS-E	M.72
1010850100	IE-C5DB4RE0100MCSMCS-E	M.72
1011970150	SAIL-M12GM12G-5-1.5T	B.29
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1021470000	SAIS-3/7	C.5
1021470000	SAIS-3/7	C.7
1021480000	SAIS-3/9	C.5
1021480000	SAIS-3/9	C.7
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1021650150	SAIL-M12G-5-1.5T	B.11
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1021730150	SAIL-M12GM12G-4-1.5T	B.29
1021740150	SAIL-M12GM12W-4-1.5T	B.29
1021750150	SAIL-M12G-3-1.5T	B.11
1021760150	SAIL-M12W-3-1.5T	B.11
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1025260000	SFC 3/21 MC NE WS	N.17
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1025290000	SFC 3/21 MC NE RT	N.17
1025300000	SFC 3/21 MC NE BL	N.17
1025310000	SFC 3/30 MC NE WS	N.17
1025320000	SFC 3/30 MC NE GE	N.17
1025330000	SFC 3/30 MC NE RT	N.17
1025340000	SFC 3/30 MC NE BL	N.17
1025550000	SFC 3/12 MC SDR	N.17
1025560000	SFC 3/21 MC SDR	N.17
1025570000	SFC 3/30 MC SDR	N.17
1025940015	IE-C5DD4UG0015MCSXXX-X	M.69
1025940030	IE-C5DD4UG0030MCSXXX-X	M.69
1025940050	IE-C5DD4UG0050MCSXXX-X	M.69
1025940100	IE-C5DD4UG0100MCSXXX-X	M.69
1025950005	IE-C5DD4UG0005MCSMCS-E	M.68
1025950015	IE-C5DD4UG0015MCSMCS-E	M.68
1025950030	IE-C5DD4UG0030MCSMCS-E	M.68
1025950050	IE-C5DD4UG0050MCSMCS-E	M.68
1025950100	IE-C5DD4UG0100MCSMCS-E	M.68
1026090000	SAI-ASI T FF small	M.55
1026180150	SAIL-VSB-M8W-3-1.5U	B.60
1026190150	SAIL-VSA-M8W-3-1.5U	B.59
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1044470050	IE-C5DD4UG0050MCSA20-E	M.69
1044470100	IE-C5DD4UG0100MCSA20-E	M.69
1044700000	SAIS-5/9-ZF	C.24
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1057720000	SAI-6-S 3P M8 L SL	E.46
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1057750150	SAIL-M12BG-4B-1.5U	B.49
1057760150	SAIL-M12BW-5B-1.5U	B.49
1057770150	SAIL-M12G-3B-1.5U	B.49
1057780150	SAIL-M12G-4B-1.5U	B.49
1057790150	SAIL-M12G-5B-1.5U	B.49
1057800150	SAIL-M12W-3B-1.5U	B.49
1057810150	SAIL-M12W-4B-1.5U	B.49
1057820150	SAIL-M12W-5B-1.5U	B.49
1057830150	SAIL-M12GM12G-3B-1.5U	B.50
1057840150	SAIL-M12GM12G-4B-1.5U	B.50
1057850150	SAIL-M12GM12G-5B-1.5U	B.50
1057870150	SAIL-M12WM12G-3B-1.5U	B.50
1057880150	SAIL-M12WM12G-4B-1.5U	B.50
1057890150	SAIL-M12WM12G-5B-1.5U	B.50
1057900150	SAIL-M12GM12W-3B-1.5U	B.50
1057910150	SAIL-M12GM12W-4B-1.5U	B.50
1057920150	SAIL-M12GM12W-5B-1.5U	B.50
1057940000	SAI-T-5-M12/M12 B-COD	C.43
1058490150	SAIL-M12GM12G-3S1.5U	B.30
1058500150	SAIL-M12GM12G-4S1.5U	B.30
1058510150	SAIL-M12GM12G-5S1.5U	B.30
1058530150	SAIL-M12G-PB-1.5E	M.4
1058540150	SAIL-M12BG-PB-1.5E	M.4
1058570150	SAIL-M12GM12G-PB-1.5E	M.5
1058630000	SAIH-CD-2x0.34/2x0.22-PUR	M.59
1059330015	IE-C5DD4UG0015MSSMCS-E	M.68
1059330030	IE-C5DD4UG0030MSSMCS-E	M.68
1059330050	IE-C5DD4UG0050MSSMCS-E	M.68
1059330100	IE-C5DD4UG0100MSSMCS-E	M.68
1059340015	IE-C5DB4RE0015MSSMCS-E	M.72
1059340030	IE-C5DB4RE0030MSSMCS-E	M.72
1059340050	IE-C5DB4RE0050MSSMCS-E	M.72
1059340100	IE-C5DB4RE0100MSSMCS-E	M.72
1059430000	SAI-8-M-4P M12 DIP	E.13
1059470150	SAIL-M12GM12W-3S1.5U	B.30
1059480150	SAIL-M12GM12W-4S1.5U	B.30
1059540150	SAIL-M12GM12W-5S1.5U	B.30
1059650150	SAIL-M12W-4S1.5U	B.17
1059720150	SAIL-M12WM12W-3S1.5U	B.30
1059730150	SAIL-M12WM12W-4S1.5U	B.30
1059740150	SAIL-M12WM12W-5S1.5U	B.30
1059750015	IE-C5DD4UG0015MCAXXX-X	M.71
1059750030	IE-C5DD4UG0030MCAXXX-X	M.71
1059750050	IE-C5DD4UG0050MCAXXX-X	M.71
1059750100	IE-C5DD4UG0100MCAXXX-X	M.71
1059770015	IE-C5DD4UG0015MCSMCA-E	M.70
1059770030	IE-C5DD4UG0030MCSMCA-E	M.70
1059770050	IE-C5DD4UG0050MCSMCA-E	M.70
1059770100	IE-C5DD4UG0100MCSMCA-E	M.70
1059890015	IE-C5DD4UG0015MCAMCA-E	M.70
1059890030	IE-C5DD4UG0030MCAMCA-E	M.70
1059890050	IE-C5DD4UG0050MCAMCA-E	M.70
1059890100	IE-C5DD4UG0100MCAMCA-E	M.70
1059900015	IE-C5DB4RE0015MCAXXX-X	M.75
1059900030	IE-C5DB4RE0030MCAXXX-X	M.75
1059900050	IE-C5DB4RE0050MCAXXX-X	M.75
1059900100	IE-C5DB4RE0100MCAXXX-X	M.75
1059940015	IE-C5DB4RE0015MCSMCA-E	M.74
1059940030	IE-C5DB4RE0030MCSMCA-E	M.74
1059940050	IE-C5DB4RE0050MCSMCA-E	M.74
1059940100	IE-C5DB4RE0100MCSMCA-E	M.74
1059970015	IE-C5DB4RE0015MCAMCA-E	M.74
1059970030	IE-C5DB4RE0030MCAMCA-E	M.74
1059970050	IE-C5DB4RE0050MCAMCA-E	M.74
1059970100	IE-C5DB4RE0100MCAMCA-E	M.74

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1060110150	SAIL-M12G-CD-1.5B	M.56
1060120150	SAIL-M12BG-CD-1.5B	M.56
1060130150	SAIL-M12GM12G-CD-1.5B	M.57
1060730000	SAI-Y-4S-M12/M12	C.40
1061880150	SAIL-M12BG-5B-1.5U	B.49
1061890150	SAIL-M12BW-3B-1.5U	B.49
1061900150	SAIL-M12BW-4B-1.5U	B.49
1061910150	SAIL-M12WM12W-3B-1.5U	B.50
1061920150	SAIL-M12WM12W-4B-1.5U	B.50
1061930150	SAIL-M12WM12W-5B-1.5U	B.50
1061970150	SAIL-M12W-PB-1.5D	M.4
1061980150	SAIL-M12BW-CD-1.5A	M.56
1061990150	SAIL-M12GM12W-CD-1.5A	M.57
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1062050000	SFC 2.5/21 MC NE WS	N.17
1062070000	SFC 2.5/21 MC NE GE	N.17
1062080000	SFC 2.5/21 MC NE RT	N.17
1062090000	SFC 2.5/21 MC NE BL	N.17
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1062150150	SAIL-M12WM12W-CD-1.5A	M.57
1062170150	SAIL-M12W-CD-1.5B	M.56
1062180150	SAIL-M12BW-CD-1.5B	M.56
1062190150	SAIL-M12GM12W-CD-1.5B	M.57
1062210150	SAIL-M12WM12W-CD-1.5B	M.57
1062220150	SAIL-M12W-CD-1.5A	M.56
1062300150	SAIL-M12BW-PB-1.5D	M.4
1062310150	SAIL-M12GM12W-PB-1.5D	M.5
1062330150	SAIL-M12WM12W-PB-1.5D	M.5
1062340150	SAIL-M12W-PB-1.5E	M.4
1062370150	SAIL-M12BW-PB-1.5E	M.4
1062380150	SAIL-M12GM12W-PB-1.5E	M.5
1062400150	SAIL-M12WM12W-PB-1.5E	M.5

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1070630000	SAI-4-F 5P M12 L 5M	E.9
1070640000	SAI-4-F 5P M12 L 10M	E.6
1070640000	SAI-4-F 5P M12 L 10M	E.9
1070650000	SAI-4-F 4P M12 L 5M	E.6
1070650000	SAI-4-F 4P M12 L 5M	E.9
1070660000	SAI-4-F 4P M12 L 10M	E.6
1070660000	SAI-4-F 4P M12 L 10M	E.9
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1071990300	SAIL-M12WM12G-4-3.0U	B.6
1071990500	SAIL-M12WM12G-4-5.0U	B.6
1071991000	SAIL-M12WM12G-4-10U	B.6
1073020150	SAIL-M8WM8G-3-1.5U	B.4
1073020300	SAIL-M8WM8G-3-3.0U	B.4
1073020500	SAIL-M8WM8G-3-5.0U	B.4
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1075390100	FBCEX PA M12 M-FMA 1M	M.29
1075410100	FBCEX PA M12 MA-FMA 1M	M.29
1075450100	FBCEX PA M12 MA-FM 1M	M.29
1075460100	FBC PA M12 MA-FM 1M	M.29
1075620100	FBC PA M12 M-FMA 1M	M.29
1076520100	FBCEX PA M12 FMA 1M	M.28
1076530100	FBC PA M12 FMA 1M	M.28
1076540100	FBC PA M12 MA 1M	M.28
1076550100	FBC PA M12 MA-FMA 1M	M.29
1076580100	FBCEX PA M12 MA 1M	M.28
1077750150	SAIL-M12G-4-1.5UGE	B.11
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1092930150	SAIL-M12BG-5-1.5UGE	B.11
1092940150	SAIL-M12BW-3-1.5UGE	B.11
1092950150	SAIL-M12BW-4-2L1.5UGE	B.16
1092960150	SAIL-M12BW-4-1.5UGE	B.11
1092970150	SAIL-M12BW-5-1.5UGE	B.11
1092980150	SAIL-M12G-3-1.5UGE	B.11
1092990150	SAIL-M12G-5-1.5UGE	B.11
1093000150	SAIL-M12GM12G-2/4-1.5UGE	B.31
1093010150	SAIL-M12GM12G-3-1.5UGE	B.29
1093020150	SAIL-M12GM12G-4-1.5UGE	B.29
1093030150	SAIL-M12GM12G-5-1.5UGE	B.29
1093040150	SAIL-M12GM12W-2/4-1.5UGE	B.31
1093050150	SAIL-M12GM12W-3-1.5UGE	B.29
1093060150	SAIL-M12GM12W-4-3LW1.5UGE	B.32
1093070150	SAIL-M12GM12W-4-1.5UGE	B.29
1093080150	SAIL-M12GM12W-5-1.5UGE	B.29
1093110150	SAIL-M12GM8W-3L1.5UGE	B.36
1093130150	SAIL-M12GM8W-4L1.5UGE	B.36
1093150150	SAIL-M12GM8WR-3-1.5UGE	B.34
1093160150	SAIL-M12W-3-1.5UGE	B.11
1093170150	SAIL-M12W-4-1.5UGE	B.11
1093180150	SAIL-M12W-5-1.5UGE	B.11
1093190150	SAIL-M8BG-3-1.5UGE	B.19
1093200150	SAIL-M8BG-4-1.5UGE	B.19
1093210150	SAIL-M8BW-3L1.5UGE	B.23
1093220150	SAIL-M8BW-3-1.5UGE	B.19
1093230150	SAIL-M8BW-4L1.5UGE	B.23
1093240150	SAIL-M8BW-4-1.5UGE	B.19
1093250150	SAIL-ZW-M8BG-3-1.5UGE	B.44
1093260150	SAIL-ZW-M8BW-3-1.5UGE	B.44
1094190200	SAIL-M12BG-4-2L2.0U	B.16
1099760150	SAIL-VSA-M8G-3-1.5U	B.59
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1108670150	SAIP-M12W-3-1.5U	B.12
1108680150	SAIP-M12W-4-1.5U	B.12
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1108800150	SAIP-M12G-3-1.5U	B.12
1108810150	SAIP-M12G-4-1.5U	B.12
1108820150	SAIP-M12G-5-1.5U	B.12

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1117970000	SAIS-M16-4/9	C.39
1117980000	SAIB-M16-5/9	C.39
1117990000	SAIS-M16-5/9	C.39
1118000000	SAIB-M16-7/9	C.39
1118010000	SAIS-M16-7/9	C.39
1118910000	SAISM-8/11S-M12	C.12
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1119030000	ERME 10² SPX 4	N.9
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1139330000	SAIBW-4/8S-M12 4P D-ZF	C.5

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1140640000	PB-DP SUB-D M12 TERM PS	M.13
1140650000	PB-DP SUB-D M12 TERM	M.13

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1160820030	SAIL-M8G-4S0.3UIE	M.67
1160820050	SAIL-M8G-4S0.5UIE	M.67
1160820100	SAIL-M8G-4S1.0UIE	M.67
1160820200	SAIL-M8G-4S2.0UIE	M.67
1160820300	SAIL-M8G-4S3.0UIE	M.67
1160820400	SAIL-M8G-4S4.0UIE	M.67
1160820500	SAIL-M8G-4S5.0UIE	M.67
1160820750	SAIL-M8G-4S7.5UIE	M.67
1160821000	SAIL-M8G-4S10UIE	M.67
1160930010	SAIL-M8GM8SG-4S0.1UIE	M.67
1160930030	SAIL-M8GM8SG-4S0.3UIE	M.67
1160930050	SAIL-M8GM8SG-4S0.5UIE	M.67
1160930100	SAIL-M8GM8SG-4S1.0UIE	M.67
1160930200	SAIL-M8GM8SG-4S2.0UIE	M.67
1160930300	SAIL-M8GM8SG-4S3.0UIE	M.67
1160930400	SAIL-M8GM8SG-4S4.0UIE	M.67
1160930500	SAIL-M8GM8SG-4S5.0UIE	M.67
1160930750	SAIL-M8GM8SG-4S7.5UIE	M.67
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1160932000	SAIL-M8GM8SG-4S20UIE	M.67
1160933000	SAIL-M8GM8SG-4S30UIE	M.67
1160934000	SAIL-M8GM8SG-4S40UIE	M.67
1160935000	SAIL-M8GM8SG-4S50UIE	M.67
1161870000	PB-DP SUB-D ZF TERM	M.15
1161880000	PB-DP SUB-D ZF TERM PS	M.16
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1279440150	SAIL-M12GM12G-8-1.5U	B.14
1279450150	SAIL-M12GM12W-8-1.5U	B.14
1279460150	SAIL-M12GM12G-8S1.5U	B.15
1279470150	SAIL-M12GM12W-8S1.5U	B.15
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1279480200	SAIE-M12B-PB-2.0U HW	M.7
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1291900000	SAISW-3/11-7/8	K.7
1291910000	SAIB-3/9-7/8	K.6
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1304430000	SAIS-M16-8/9	C.39
1304450000	SAIB-M16-8/9	C.39
1304740150	SAIL-M12WM8G-3-1.5U	B.4
1304740300	SAIL-M12WM8G-3-3.0U	B.4
1309680015	SAIL-VSC-M8G-0.15U	B.61

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1311690150	SAIL-M12W-12-1.5U	B.14
1311700150	SAIL-M12G-12-1.5U	B.14
1312970000	SAIE-M12B-5-TL	C.56
1312980000	SAIE-M12S-5-TL	C.56
1316550150	SAIL-VSA-DS-M12G-1.5U	B.53

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1321690000	SAIB-M16-2/9	C.39
1321700000	SAIS-M16-2/9	C.39
1324010000	IE-PCB-M12X-S-180	M.81
1324020000	IE-PS-M12X-P-FH	M.81
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1326730000	SAIE-M16B-5-L	C.58
1326740000	SAIE-M16B-7-L	C.58

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1338650000	PJ ADV TNTK INK Y	N.21
1338670000	PJ ADV TNTK INK M	N.21
1338680000	PJ ADV TNTK INK C	N.21
1338690000	PJ ADV TNTK INK K	N.21
1338700000	PRINTJET ADVANCED 115V	N.21
1338710000	PJ ADV TNAW	N.21
1338720000	PJ ADV TNTK INK SET	N.21

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1341230200	SAIE-M12S-5S2.0U HW	C.55
1341240050	SAIE-M12S-8S0.5U HW	C.55
1341240200	SAIE-M12S-8S2.0U HW	C.55
1345520000	SAIH-3x0.34(PUR)GE	B.68
1345530000	SAIH-4x0.34(PUR)GE	B.68
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1353740000	SAIS-5/11-1.5	D.14
1353750000	SAIB-5/11-1.5	D.14
1353770000	SAIE-M12S-4-0.2U P9 .75	D.22
1353780000	SAIE-M12B-4-0.2U P9 .75	D.22
1353790000	SAIE-M12S-5-0.2U P9 .75	D.22
1353800000	SAIE-M12B-5-0.2U P9 .75	D.22
1357320000	SAIH-3x0.34-S(PUR)	B.70
1357330000	SAIH-4x0.34-S(PUR)	B.70
1357340000	SAIH-5x0.34-S(PUR)	B.71

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1380540000	SAISC-D-RR-7.3-C5	M.79
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1380580000	SAISC-D-RR-8.3-C5	M.79
1380590000	SAIBC-D-RR-8.3-C5	C.37
1380590000	SAIBC-D-RR-8.3-C5	M.79
1380610000	SAISC-D-PN-6.5-C5	C.37
1380610000	SAISC-D-PN-6.5-C5	M.79
1380620000	SAIBC-D-PN-6.5-C5	C.37
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1380640000	SAIBC-WDF-D-RR-6.6-C5	C.38
1380640000	SAIBC-WDF-D-RR-6.6-C5	M.80
1380650000	SAIBC-WDF-D-RR-8.3-C5	C.38
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1380670000	SAIBC-WDF-D-PN-6.5-C5	C.38
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1382990150	SAIP-M8BG-4-1.5U	B.22
1383000150	SAIP-M8BW-4-1.5U	B.22
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1383040000	SAIS-WDF-8-M20	D.20
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1392000000	SAIB-3+PE/11-S-COD	D.15
1392710000	SAIS-WDF-4-M20-T-COD	D.21
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1437510150	SAIL-M12WM8G-4-1.5U	B.5
1437510300	SAIL-M12WM8G-4-3.0U	B.5
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1460300000	SAIB-WDF-3+PE-M20-S-COD	D.21
1460310000	SAIE-M12B-3+PE-S-0.5U-M16	D.23
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1467950000	SAIE-M12S-4-T-0.2U-M16	D.23
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1548840000	SAIB-M16-16/9	C.39
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1705932000	SAI-6-MH-4P M12	E.25
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1705940000	SAI-8-M 4P M12	E.6
1705940000	SAI-8-M 4P M12	E.7
1705941000	SAI-8-M 4P M12 UT	E.36
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1705942000	SAI-8-MH-4P M12	E.25
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1718431687	TM-I 18 MC NE GE	M.68
1718431687	TM-I 18 MC NE GE	M.69
1718431687	TM-I 18 MC NE GE	M.70
1718431687	TM-I 18 MC NE GE	M.71
1718431687	TM-I 18 MC NE GE	M.72
1718431687	TM-I 18 MC NE GE	M.73
1718431687	TM-I 18 MC NE GE	M.74
1718431687	TM-I 18 MC NE GE	M.75
1718431687	TM-I 18 MC NE GE	N.18
1719840000	TM 4/12 HF/HB	M.70
1719840000	TM 4/12 HF/HB	M.71
1719840000	TM 4/12 HF/HB	M.74
1719840000	TM 4/12 HF/HB	M.75
1719850000	TM 4/18 HF/HB	M.70
1719850000	TM 4/18 HF/HB	M.71
1719850000	TM 4/18 HF/HB	M.74
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1724750000	SAI-4/6/8-MH BL3.5	E.7
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1724750050	SAI-4/6/8-MH BL3.5 SV	E.20
1724750050	SAI-4/6/8-MH BL3.5 SV	E.7
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1752080050	SAI-4/6/8-MH BLZF3.5 SV	E.20
1752080050	SAI-4/6/8-MH BLZF3.5 SV	E.7
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1758320001	SFC 2/12 MC NE WS	N.17
1758320002	SFC 2/12 MC NE BL	N.17
1758320003	SFC 2/12 MC NE RT	N.17
1758320004	SFC 2/12 MC NE GE	N.17

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1760041000	SAI-4-M 3P IDC UT	E.20
1760050000	SAI-6-M 3P IDC	E.20
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1760061000	SAI-8-M 3P IDC UT	E.20
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1766660000	SAI-4-F 4P IDC PUR 5M	E.21
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1766690000	SAI-6-F 4P IDC PUR 10M	E.21
1766700000	SAI-8-F 4P IDC PUR 5M	E.21
1766710000	SAI-8-F 4P IDC PUR 10M	E.21
1766770000	SAI-8-F 3P IDC PUR 10M	E.21
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1766790000	SAI-6-M 4P IDC	E.20
1766791000	SAI-6-M 4P IDC UT	E.20
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1781550000	SAIS-4-IDC M12	C.29
1781550001	SAIS-4-IDC M12 SMALL	C.29
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1783430000	SAI-Y-5S PARA 2M12	C.40
1783430000	SAI-Y-5S PARA 2M12	H.9
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1783490000	SAI-8-MM 5P M12	E.25
1783490000	SAI-8-MM 5P M12	E.27
1783490000	SAI-8-MM 5P M12	E.6
1783491000	SAI-8-MM 5P M12 UT	E.27
1783500000	SAI-4-MM 5P M12	E.25
1783500000	SAI-4-MM 5P M12	E.27
1783500000	SAI-4-MM 5P M12	E.6
1783510000	SAI-8-MMS 5P M12	E.25
1783510000	SAI-8-MMS 5P M12	E.27
1783510000	SAI-8-MMS 5P M12	E.6
1783520000	SAI-4-MMS 5P M12	E.25
1783520000	SAI-4-MMS 5P M12	E.27
1783520000	SAI-4-MMS 5P M12	E.6

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1783530000	SAI-8-MMS 4P M12	E.25
1783530000	SAI-8-MMS 4P M12	E.27
1783530000	SAI-8-MMS 4P M12	E.6
1783540000	SAI-4-MMS 4P M12	E.25
1783540000	SAI-4-MMS 4P M12	E.27
1783540000	SAI-4-MMS 4P M12	E.6
1784030001	SAIB-3-IDC-M8 SMALL	C.33
1784030001	SAIB-3-IDC-M8 SMALL	C.6
1784040001	SAIS-3-IDC M8 SMALL	C.33
1784040001	SAIS-3-IDC M8 SMALL	C.6
1784050001	SAIB-4-IDC-M8 small	C.33
1784050001	SAIB-4-IDC-M8 small	C.6
1784060001	SAIS-4-IDC M8 small	C.33
1784060001	SAIS-4-IDC M8 small	C.6
1784500000	SAI-8-F 5P 20M 0.5/1.0U	E.8
1784510000	SAI-8-F 5P 15M 0.5/1.0U	E.8
1784570000	SAI-8-F 4P M8 PUR 10M	E.42
1784580000	SAI-8-F 4P M8 PUR 5M	E.42
1784590000	SAI-4-F 4P M8 PUR 10M	E.42
1784600000	SAI-4-F 4P M8 PUR 5M	E.42
1784610000	SAI-8-F 3P M8 PUR 10M	E.42
1784620000	SAI-8-F 3P M8 PUR 5M	E.42
1784630000	SAI-4-F 3P M8 PUR 10M	E.42
1784640000	SAI-4-F 3P M8 PUR 5M	E.42
1784650000	SAI-8-M23 4P M8	E.43
1784650000	SAI-8-M23 4P M8	L.39
1784660000	SAI-4-M23 4P M8	E.43
1784660000	SAI-4-M23 4P M8	L.39
1784670000	SAI-8-M 3P M8	E.42
1784680000	SAI-4-M 3P M8	E.42
1784690000	SAI-8-M 4P M8	E.42
1784700000	SAI-4-M 4P M8	E.42
1784740000	SAIS-M-5/8S M12 5P A-COD	C.11
1784740000	SAIS-M-5/8S M12 5P A-COD	C.5
1784740000	SAIS-M-5/8S M12 5P A-COD	M.31
1784740000	SAIS-M-5/8S M12 5P A-COD	M.60
1784740002	SAIBM-4/8S-M12 4P A-ZF	C.5
1784750000	SAIB-M-5/8S M12 5P A-COD	C.11
1784750000	SAIB-M-5/8S M12 5P A-COD	C.5
1784750000	SAIB-M-5/8S M12 5P A-COD	M.31
1784750000	SAIB-M-5/8S M12 5P A-COD	M.60
1784780000	SAIBM 5/8S M12 5P B-COD	C.13
1784780000	SAIBM 5/8S M12 5P B-COD	C.5
1784780000	SAIBM 5/8S M12 5P B-COD	M.11
1784790000	SAISM 5/8S M12 5P B-COD	C.13
1784790000	SAISM 5/8S M12 5P B-COD	C.5
1784790000	SAISM 5/8S M12 5P B-COD	M.11
1785100100	FBC PA M12 M-FM 1M	M.29
1785110100	FBC PA M12 FM 1M	M.28
1785120100	FBC PA M12 M 1M	M.28
1785130100	FBCEX PA M12 M-FM 1M	M.29
1785140100	FBCEX PA M12 FM 1M	M.28
1785150100	FBCEX PA M12 M 1M	M.28
1789190000	SAI-8-MF 4P PUR 10M M12	E.36

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1791450400	SAI-4/6/8-MHF 4P PUR 4M	E.36
1791450600	SAI-4/6/8-MHF 4P PUR 6M	E.36
1791450900	SAI-4/6/8-MHF 4P PUR 9M	E.36
1791451400	SAI-4/6/8-MHF 4P PUR14M	E.36
1791452000	SAI-4/6/8-MHF 4P PUR20M	E.36
1791452800	SAI-4/6/8-MHF 4P PUR28M	E.36
1791453400	SAI-4/6/8-MHF 4P PUR34M	E.36
1791460400	SAI-4/6/8-MHF 5P PUR 4M	E.36
1791460600	SAI-4/6/8-MHF 5P PUR 6M	E.36
1791460900	SAI-4/6/8-MHF 5P PUR 9M	E.36
1791461000	SAI-4/6/8-MHF 5P PUR 10M	E.36
1791461400	SAI-4/6/8-MHF 5P PUR14M	E.36
1791461600	SAI-4/6/8-MHF 5P PUR16M	E.36
1791462000	SAI-4/6/8-MHF 5P PUR20M	E.36
1791462800	SAI-4/6/8-MHF 5P PUR28M	E.36
1791463400	SAI-4/6/8-MHF 5P PUR34M	E.36
1791464000	SAI-4/6/8-MHF 5P PUR40M	E.36
1791465000	SAI-4/6/8-MHF 5P PUR50M	E.36
1791465500	SAI-4/6/8-MHF 5P PUR55M	E.36
1794850000	SAI-SK-M12 IDC	C.46
1794850000	SAI-SK-M12 IDC	E.19
1795020000	SAI-IDC-TOOL	E.19
1795470000	SAI-8-S 5P M12	E.6
1795500000	POS-5P M12 B-COD M20 300MM	M.33
1795900000	SAI-8-M16 3P M8	E.43
1798480000	TM 203/18 V0	N.18
1799960000	SAI-8-MF 4P PUR 5M M12	E.36

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1800000000	SAI-4-M 5P M12 0L	E.7
1800001000	SAI-4-M 5P M12 0L UT	E.7
1802750000	SAI-SK M12 MT	C.46
1802760000	SAI-SK M8	C.46
1803850000	SAIS-M8-4P	C.15
1803850000	SAIS-M8-4P	C.6
1803860000	SAIS-M8-3P	C.15
1803860000	SAIS-M8-3P	C.6
1803870000	SAIB-M8-3P	C.15
1803870000	SAIB-M8-3P	C.6
1803880000	SAIB-M8-4P	C.15
1803880000	SAIB-M8-4P	C.6
1803910000	SAIBW-M-4/8 M12	C.11
1803910000	SAIBW-M-4/8 M12	C.5
1803910000	SAIBW-M-4/8 M12	M.31
1803920000	SAIBW-M-5/8 M12	C.11
1803920000	SAIBW-M-5/8 M12	C.5
1803920000	SAIBW-M-5/8 M12	M.31
1803920000	SAIBW-M-5/8 M12	M.60
1803930000	SAISW-M-4/8 M12	C.11
1803930000	SAISW-M-4/8 M12	C.5
1803930000	SAISW-M-4/8 M12	M.31
1803930001	SAISW-4/8S-M12 4P D-ZF	C.26
1803930001	SAISW-4/8S-M12 4P D-ZF	C.5
1803940000	SAISW-M-5/8 M12	C.11
1803940000	SAISW-M-5/8 M12	C.5
1803940000	SAISW-M-5/8 M12	M.31
1803940000	SAISW-M-5/8 M12	M.60
1804580000	SAI-4-MF 5P PUR 10M	E.36
1804590000	SAI-8-MF 5P PUR 5M	E.36
1804600000	SAI-4-MF 5P PUR 5M	E.36
1805660000	SAI Y-4S M8-M8	C.41
1805720000	SFC 1/30 MC NE BL	N.17
1805730000	SFC 1/30 MC NE GE	N.17
1805740000	SFC 1/30 MC NE RT	N.17
1805750000	SFC 1/30 MC SDR	N.17
1805760000	SFC 1/30 MC NE WS	N.17
1805770000	SFC 2/21 MC NE BL	N.17
1805780000	SFC 2/21 MC NE GE	N.17
1805790000	SFC 2/21 MC NE RT	N.17
1805800000	SFC 2/21 MC SDR	N.17
1805810000	SFC 2/21 MC NE WS	N.17
1805820000	SFC 2/30 MC NE BL	N.17
1805830000	SFC 2/30 MC NE GE	N.17
1805850000	SFC 2/30 MC NE RT	N.17
1805860000	SFC 2/30 MC SDR	N.17
1805870000	SFC 2/30 MC NE WS	N.17
1806010000	SAI-4-M 5P M12 1:1	E.30
1806011000	SAI-4-M 5P M12 1:1 UT	E.30
1807230000	SAIB-4/9	C.5
1807230000	SAIB-4/9	C.7
1807240000	SAIBW-4/9	C.5
1807240000	SAIBW-4/9	C.7
1807250000	SAIB-5/9	C.5
1807250000	SAIB-5/9	C.8
1807330000	SAIBW-5/9	C.5
1807330000	SAIBW-5/9	C.8
1807340000	SAIS-4/9	C.5
1807340000	SAIS-4/9	C.7
1807350000	SAIS-5/9	C.5
1807350000	SAIS-5/9	C.8
1807360000	SAISW-4/9	C.5
1807360000	SAISW-4/9	C.7
1807370000	SAISW- 5/9	C.5
1807370000	SAISW- 5/9	C.8
1807640000	SAI-4-M 8P M12	E.31
1807641000	SAI-4-M 8P M12 UT	E.31
1808830000	SAISW-4/9-7/8	K.6
1808830000	SAISW-4/9-7/8	M.82
1808840000	SAIS-4/9-7/8	K.6
1808840000	SAIS-4/9-7/8	M.82
1808970150	SAIL-M12BW-4S1.5U	B.17

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1812170000	SAI-8-B 4P M12 F10	E.35
1812470000	SAIBW-4/9-7/8	K.6
1812470000	SAIBW-4/9-7/8	M.82
1812480000	SAIB-4/9-7/8	K.6
1812480000	SAIB-4/9-7/8	M.82
1812540150	SAIL-M12BG-4S1.5U	B.17
1812550150	SAIL-ZW-M12BG-2/4-1.5U	B.43
1812870000	SAISW-4-IDC M12	C.30
1812890000	SAIBW-4-IDC M12	C.30
1813130000	SFC 0/12 MC NE WS	N.17
1813150000	SFC 0/12 MC NE RT	N.17
1813160000	SFC 0/12 MC NE GE	N.17
1813170000	SFC 0/12 MC NE BL	N.17
1813180000	SFC 0/12 MC SDR	N.17
1813190000	SFC 0/21 MC NE WS	N.17
1813200000	SFC 0/21 MC NE RT	N.17
1813210000	SFC 0/21 MC NE GE	N.17
1813220000	SFC 0/21 MC NE BL	N.17
1813230000	SFC 0/21 MC SDR	N.17
1813240000	SFC 0/30 MC NE WS	N.17
1813250000	SFC 0/30 MC NE RT	N.17
1813260000	SFC 0/30 MC NE GE	N.17
1813270000	SFC 0/30 MC NE BL	N.17
1813280000	SFC 0/30 MC SDR	N.17
1814890000	SAIE-M12B-5-0.5U-PG9	C.50
1814990000	SAI-8-F 5P NPN-PNP 5M	E.32
1815670150	SAIL-M12WM12W-3-1.5U	B.29
1815670150	SAIL-M12WM12W-3-1.5U	B.7
1815670300	SAIL-M12WM12W-3-3.0U	B.7
1815670500	SAIL-M12WM12W-3-5.0U	B.7
1815671000	SAIL-M12WM12W-3-10U	B.7
1816610000	SAI-8-M 5P M12 0L2	E.7
1818090100	SAIS-M23-19P-AN-1,0M	L.36
1818140100	SAIB-M23-19P-AN-1,0M	L.36
1818160100	SAIS-M23-19P-ST-1,0M	L.36
1818180100	SAIB-M23-19P-ST-1,0M	L.36

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1821050150	SAIL-M12WM12G-3-1.5U	B.6
1821050300	SAIL-M12WM12G-3-3.0U	B.6
1821050500	SAIL-M12WM12G-3-5.0U	B.6
1821051000	SAIL-M12WM12G-3-10U	B.6
1824570000	SAIL-M8GM8G-3-X.XU	B.4
1824570150	SAIL-M8GM8G-3-1.5U	B.38
1824570150	SAIL-M8GM8G-3-1.5U	B.4
1824570300	SAIL-M8GM8G-3-3.0U	B.4
1824570500	SAIL-M8GM8G-3-5.0U	B.4
1824571000	SAIL-M8GM8G-3-10U	B.4
1824580000	SAIL-M8GM8W-3-X.XU	B.5
1824580150	SAIL-M8GM8W-3-1.5U	B.38
1824580150	SAIL-M8GM8W-3-1.5U	B.5
1824580300	SAIL-M8GM8W-3-3.0U	B.5
1824580500	SAIL-M8GM8W-3-5.0U	B.5
1824581000	SAIL-M8GM8W-3-10U	B.5
1824590000	SAIL-M8G-3-X.XU	B.4
1824590150	SAIL-M8G-3-1.5U	B.19
1824590150	SAIL-M8G-3-1.5U	B.4
1824590300	SAIL-M8G-3-3.0U	B.4
1824590500	SAIL-M8G-3-5.0U	B.4
1824591000	SAIL-M8G-3-10U	B.4
1826880000	SAI-Y-5S- M12/M12	C.40
1827010150	SAIL-M8BWR-3-1.5U	B.20
1827020150	SAIL-M8BGR-3-1.5U	B.20
1828610000	SAI-8-F 4P M8 L 10M	E.47
1828610000	SAI-8-F 4P M8 L 10M	E.6
1828620000	SAI-8-F 4P M8 L 5M	E.47
1828620000	SAI-8-F 4P M8 L 5M	E.6
1828630000	SAI-12-F 3P M8 L 10M	E.47
1828630000	SAI-12-F 3P M8 L 10M	E.6
1828640000	SAI-12-F 3P M8 L 5M	E.47
1828640000	SAI-12-F 3P M8 L 5M	E.6
1828650000	SAI-10-F 3P M8 L 10M	E.47
1828650000	SAI-10-F 3P M8 L 10M	E.6
1828660000	SAI-10-F 3P M8 L 5M	E.47
1828660000	SAI-10-F 3P M8 L 5M	E.6
1828670000	SAI-8-F 3P M8 L 10M	E.47
1828670000	SAI-8-F 3P M8 L 10M	E.6
1828680000	SAI-8-F 3P M8 L 5M	E.47
1828680000	SAI-8-F 3P M8 L 5M	E.6
1828690000	SAI-6-F 3P M8 L 10M	E.47
1828690000	SAI-6-F 3P M8 L 10M	E.6
1828700000	SAI-6-F 3P M8 L 5M	E.47
1828700000	SAI-6-F 3P M8 L 5M	E.6
1828710000	SAI-4-F 3P M8 L 10M	E.47
1828710000	SAI-4-F 3P M8 L 10M	E.6
1828720000	SAI-4-F 3P M8 L 5M	E.47
1828720000	SAI-4-F 3P M8 L 5M	E.6
1828730000	SAI-6-S 3P M8 L	E.44
1828730000	SAI-6-S 3P M8 L	E.6
1828740000	SAI-4-S 3P M8 L	E.44
1828740000	SAI-4-S 3P M8 L	E.6

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1831020000	SAI-8-M16 4P M12	E.12
1836910000	SAIE-M12B-5-0.5U-M16	C.49
1836960000	SAIB-8/9	C.5
1836960000	SAIB-8/9	C.8
1836970000	SAIS-8/9	C.5
1836970000	SAIS-8/9	C.8
1837560000	SAIS-ZWW	C.9

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1845120150	SAIL-VSA-1.5U(0.5)	B.57
1845140150	SAIL-VSB-180-1.5U(0.5)	B.58
1845160150	SAIL-VSBD-180-1.5U(0.5)	B.58
1847560000	SAI-8-B 5P M12 SL	E.33
1847920000	SAI-8-S 4P FC	E.16
1847920000	SAI-8-S 4P FC	L.37
1847960000	SAI-4-S 4P FC 1993	E.16
1847960000	SAI-4-S 4P FC 1993	L.37
1847970000	SAI-4-S 5P FC	E.16
1847970000	SAI-4-S 5P FC	L.37
1848040000	SAI-8-S 5P FC	E.16
1848040000	SAI-8-S 5P FC	L.37
1849670000	SAI-6-F 4P M8 L 10M	E.47
1849670000	SAI-6-F 4P M8 L 10M	E.6
1849680000	SAI-4-F 4P M8 L 5M	E.47
1849680000	SAI-4-F 4P M8 L 5M	E.6
1849690000	SAI-4-F 4P M8 L 10M	E.47
1849690000	SAI-4-F 4P M8 L 10M	E.6
1849700000	SAI-6-F 4P M8 L 5M	E.47
1849700000	SAI-6-F 4P M8 L 5M	E.6

1850000000

1852720000	SAIS-3-4-5-IDC(0.75)M12	C.30
1852730000	SAIB-3-4-5-IDC(0.75)M12	C.30
1852730000	SAIB-3-4-5-IDC(0.75)M12	C.5
1852740000	SAIS-4-IDC (0,75) M12	C.30
1852740000	SAIS-4-IDC (0,75) M12	C.5
1852750000	SAIB-4-IDC (0,75) M12	C.30
1854000000	SAI-4-M 5P M12 ZF	E.7
1854060150	SAIL-M5G-3P-1.5U	B.25
1855310000	SAI-SK M5	C.46
1856110000	SAIE-M12B-5-0.5U-FP-M16	C.49
1856120000	SAIE-M12S-5-0.5U-PG9	C.50
1856130000	SAIE-M8B-3-0.5U-FP-M8	C.53
1856140000	SAIE-M8B-4-0.5U-FP-M8	C.53
1857550000	SAIL-M8W-3-X.XU	B.4
1857550150	SAIL-M8W-3-1.5U	B.19
1857550150	SAIL-M8W-3-1.5U	B.4
1857550300	SAIL-M8W-3-3.0U	B.4
1857550500	SAIL-M8W-3-5.0U	B.4
1857551000	SAIL-M8W-3-10U	B.4
1857560000	SAIL-M8W-4-X.XU	B.4
1857560150	SAIL-M8W-4-1.5U	B.19
1857560150	SAIL-M8W-4-1.5U	B.4
1857560300	SAIL-M8W-4-3.0U	B.4
1857560500	SAIL-M8W-4-5.0U	B.4
1857561000	SAIL-M8W-4-10U	B.4
1857660000	SAIL-M8GM8W-4-X.XU	B.5
1857660150	SAIL-M8GM8W-4-1.5U	B.38
1857660150	SAIL-M8GM8W-4-1.5U	B.5
1857660300	SAIL-M8GM8W-4-3.0U	B.5
1857660500	SAIL-M8GM8W-4-5.0U	B.5
1857661000	SAIL-M8GM8W-4-10U	B.5
1857670000	SAIL-M8WM8W-3-X.XU	B.5
1857670150	SAIL-M8WM8W-3-1.5U	B.38
1857670150	SAIL-M8WM8W-3-1.5U	B.5
1857670300	SAIL-M8WM8W-3-3.0U	B.5
1857670500	SAIL-M8WM8W-3-5.0U	B.5
1857671000	SAIL-M8WM8W-3-10U	B.5
1857680000	SAIL-M8WM8W-4-X.XU	B.5
1857680150	SAIL-M8WM8W-4-1.5U	B.38
1857680150	SAIL-M8WM8W-4-1.5U	B.5
1857680300	SAIL-M8WM8W-4-3.0U	B.5
1857680500	SAIL-M8WM8W-4-5.0U	B.5
1857681000	SAIL-M8WM8W-4-10U	B.5
1857690150	SAIL-VSA-M12W-1.5U	B.53
1857700150	SAIL-VSB-M12W-1.5U	B.55
1857710150	SAIL-VSBD-M12W-1.5U	B.55
1857720150	SAIL-VSC-M12W-1.5U	B.56
1857730150	SAIL-VSCD-M12W-1.5U	B.56
1859120000	SAI-8-SH 4P FC	E.17
1859120000	SAI-8-SH 4P FC	L.38
1859140000	SAI-8-SH 5P FC	E.17
1859140000	SAI-8-SH 5P FC	L.38

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1861090000	SAIE-M12S-4-0.5U-M16	C.49
1861110000	SAIE-M12S-8-0.5U-M16	C.49
1861120000	SAIE-M12B-4-0.5U-M16	C.49
1861140000	SAIE-M12B-8-0,5U-M16	C.49
1861160000	SAIE-M12S-4-0.5U-FP-M16	C.49
1861170000	SAIE-M12S-5-0.5U-FP-M16	C.49
1861180000	SAIE-M12S-8-0.5U-FP-M16	C.49
1861190000	SAIE-M12B-4-0.5U-FP-M16	C.49
1861210000	SAIE-M12B-8-0.5U-FP-M16	C.49
1861220000	SAIE-M12S-4-0.5U-PG9	C.50
1861220001	SAIE-M12S-4-0.2U-AEH-VA	M.33
1861230000	SAIE-M12S-5-0.5U-M16	C.49
1861240000	SAIE-M12S-8-0.5U-PG9	C.50
1861250000	SAIE-M12B-4-0.5U-PG9	C.50
1861270000	SAIE-M12B-8-0.5U-PG9	C.50
1861280000	SAIE-M8R-3-0.5U-FP-M8	C.53
1861290000	SAIE-M8R-4-0.5U-FP-M8	C.53
1862200000	WK-1/4(SCREWTY)	N.5
1864730000	SAIS-2-IDC-M12B-COD	C.31
1864730000	SAIS-2-IDC-M12B-COD	M.12
1864740000	SAIB-2-IDC-M12B-COD	C.31
1864740000	SAIB-2-IDC-M12B-COD	M.12
1865310000	SAI-8-F 5P M12 5M VA	E.22
1865870150	SAIL-M12BG-8-1.5U	B.14
1867410150	SAIL-M12BG-3S1.5U	B.17
1868350000	SAI-4-M 4P Exi Z1 0L	E.49
1868360000	SAI-4-M 4P Exi Z1 IL	E.49
1868370000	SAI-8-M 4P Exi Z1 IL	E.49
1868560000	DAE M12 PA SHORT	M.83

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1871680000	SAI-8-S12 3P M8 L	E.44
1871680000	SAI-8-S12 3P M8 L	E.6
1871700150	SAIL-M5G-4P-1.5U	B.25
1873030000	SAIE-M5S-4-0.2U	C.54
1873040000	SAIE-M5B-4-0.2U	C.54
1873050000	SAIE-M5S-3-0.2U	C.54
1873060000	SAIE-M5B-3-0.2U	C.54
1873070000	SAIB-VSA-3P/250/9-OB	C.61
1873080000	SAIB-VSA-4P/250/9-OB	C.61
1873090000	SAIB-VSA-3P/250/11-OB	C.61
1873100000	SAIB-VSA-4P/250/11-OB	C.61
1873110000	SAIB-VSA-3P/230/9/LD	C.62
1873120000	SAIB-VSA-3P/24/9/LD	C.62
1873130000	SAIB-VSA-3P/230/9-H/OB	C.61
1873140000	SAIB-VSA-4P/230/9-H/OB	C.61
1873150000	SAIB-VSA-3P/230/11-H/OB	C.61
1873160000	SAIB-VSA-4P/230/11-H/OB	C.61
1873170000	SAIB-VSB-3P/250/9-OB	C.63
1873180000	SAIB-VSB-3P/24/9/LD	C.63
1873190000	SAIB-VSBD-3P/250/9-OB	C.64

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1873200000	SAIB-VSC-3P/250/7-OB	C.65
1873210000	SAIB-VSC-4P/250/7-OB	C.65
1873220000	SAIB-VSCD-3P/250/7-OB	C.65
1873230000	SAIB-VSCD-4P/250/7-OB	C.65
1873240150	SAIL-M5W-4P-1.5U	B.25
1873250150	SAIL-M5BG-4P-1.5U	B.25
1873260150	SAIL-M5BW-3P-1.5U	B.25
1873270150	SAIL-M5BW-4P-1.5U	B.25
1873280150	SAIL-M5W-3P-1.5U	B.25
1873290150	SAIL-M5BG-3P-1.5U	B.25
1873300150	SAIL-M12G-PB-1.5D	M.4
1873310150	SAIL-M12GM12G-PB-1.5D	M.5
1873320150	SAIL-M12BG-PB-1.5D	M.4
1877250000	SAIL-M8GM8W-3LX.XU	B.5
1877250150	SAIL-M8GM8W-3L1.5U	B.40
1877250150	SAIL-M8GM8W-3L1.5U	B.5
1877250300	SAIL-M8GM8W-3L3.0U	B.5
1877250500	SAIL-M8GM8W-3L5.0U	B.5
1877251000	SAIL-M8GM8W-3L10U	B.5
1877440100	SAIB-M23-12P-AN-1,0M	L.36
1877950000	SAI-10-S12 3P M8 L	E.44
1877950000	SAI-10-S12 3P M8 L	E.6
1879710150	SAIL-M12BG-12-1.5U	B.14

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1880470000	SAIL-M8GM8G-4-X.XU	B.5
1880470150	SAIL-M8GM8G-4-1.5U	B.38
1880470150	SAIL-M8GM8G-4-1.5U	B.5
1880470300	SAIL-M8GM8G-4-3.0U	B.5
1880470500	SAIL-M8GM8G-4-5.0U	B.5
1880471000	SAIL-M8GM8G-4-10U	B.5
1881710000	SAI-Y-5S M12/M12 2Bo	C.41
1883460150	SAIL-M12BW-8-1.5U	B.14
1886440100	SAIB-M23-12P-ST-1,0M	L.36

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1890520150	SAIL-M12BG-8S1.5U	B.15
1892080000	SAI-8-M 5P M12 ECO	E.15
1892080005	SAI-8-M 5P M12 NPN ECO	E.15
1892081000	SAI-8-M 5P M12 ECO UT	E.15
1892090000	SAI-6-M 5P M12 ECO	E.15
1892091000	SAI-6-M 5P M12 ECO UT	E.15
1892100000	SAI-4-M 5P M12 ECO	E.15
1892100005	SAI-4-M 5P M12 NPN ECO	E.15
1892101000	SAI-4-M 5P M12 ECO UT	E.15
1892120000	SAISM-4/8S-M12-4P D-COD	C.14
1892120000	SAISM-4/8S-M12-4P D-COD	C.5
1892120000	SAISM-4/8S-M12-4P D-COD	M.76
1892120001	SAISM-4/8S-M12 4P D-ZF	C.26
1892120001	SAISM-4/8S-M12 4P D-ZF	C.5
1892130000	SAIBM-4/8S-M12-4P D-COD	C.14
1892130000	SAIBM-4/8S-M12-4P D-COD	C.5
1892130000	SAIBM-4/8S-M12-4P D-COD	M.76
1892130001	SAIBM-4/8S-M12 4P D-ZF	C.26
1892130001	SAIBM-4/8S-M12 4P D-ZF	C.5
1894380000	SAI-8-M 4P Exi Z1 OL	E.49
1896050000	SAI-4-M 5P M12 Ex ia	E.49
1896070000	SAI-6-M 5P M12 Ex ia	E.49
1896090000	SAI-8-M 5P M12 Ex ia	E.49
1896990150	SAIL-VSA-DS-1.5U	B.53
1897680000	SAI-4-MMS 5P M12 1:1	E.30
1898240150	SAIL-M12BW-12-1.5U	B.14

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1900000000	SCREWTY- M12	M.68
1900000000	SCREWTY- M12	M.69
1900000000	SCREWTY- M12	N.5
1900001000	SCREWTY-M12-DM	E.19
1900001000	SCREWTY-M12-DM	H.9
1900001000	SCREWTY-M12-DM	M.68
1900001000	SCREWTY-M12-DM	M.69
1900001000	SCREWTY-M12-DM	N.5
1900010000	SCREWTY- M8	N.5
1900011000	SCREWTY-M8-DM	N.5
1900020000	SCREWTY- M12 F	N.5
1900021000	SCREWTY-M12 F-DM	N.5
1900030000	SCREWTY- M8 F	N.5
1900031000	SCREWTY-M8 F-DM	N.5
1900100000	SCREWTY M12 KO O. SD	N.5
1900110000	SCREWTY M8 KO O. SD	N.5
1900120000	SCREWTY M12F KO O. SD	N.5
1900130000	SCREWTY M8F KO O. SD	N.5
1902110000	SAIH-3x0,34(PUR)	B.63
1902110000	SAIH-3x0,34(PUR)	B.73
1902120000	SAIH-4x0,25(PUR)	B.62
1902130000	SAIH-4x0,34(PUR)	B.63
1902130000	SAIH-4x0,34(PUR)	B.73
1902140000	SAIH-3x0,25(PUR)	B.62
1902160000	SAIH-3x0,34(PVC)	B.66
1902170000	SAIH-4x0,25(PVC)	B.65
1902180000	SAIH-4x0,34(PVC)	B.66
1902190000	SAIH-3x0,25(PVC)	B.65
1905490000	M-PRINT PRO	N.21
1906260000	SAIL-M12W-4-X.XU	B.4
1906260150	SAIL-M12W-4-1.5U	B.11
1906260150	SAIL-M12W-4-1.5U	B.4

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1906260300	SAIL-M12W-4-3.0U	B.4
1906260500	SAIL-M12W-4-5.0U	B.4
1906261000	SAIL-M12W-4-10U	B.4
1906270000	SAIL-M8G-4-X.XU	B.4
1906270150	SAIL-M8G-4-1.5U	B.19
1906270150	SAIL-M8G-4-1.5U	B.4
1906270300	SAIL-M8G-4-3.0U	B.4
1906270500	SAIL-M8G-4-5.0U	B.4
1906271000	SAIL-M8G-4-10U	B.4
1906280100	SAIS-M23-12P-ST-1,0M	L.36
1906290100	SAIS-M23-12P-AN-1,0M	L.36
1906300000	SAIL-M12GM12G-4-X.XU	B.6
1906300030	SAIL-M12GM12G-4-0.3U	H.9
1906300050	SAIL-M12GM12G-4-0.5U	H.9
1906300150	SAIL-M12GM12G-4-1.5U	B.29
1906300150	SAIL-M12GM12G-4-1.5U	B.6
1906300150	SAIL-M12GM12G-4-1.5U	H.9
1906300300	SAIL-M12GM12G-4-3.0U	B.6
1906300500	SAIL-M12GM12G-4-5.0U	B.6
1906301000	SAIL-M12GM12G-4-10U	B.6
1906310000	SAIL-M12WM12W-4-X.XU	B.7
1906310150	SAIL-M12WM12W-4-1.5U	B.29
1906310150	SAIL-M12WM12W-4-1.5U	B.7
1906310300	SAIL-M12WM12W-4-3.0U	B.7
1906310500	SAIL-M12WM12W-4-5.0U	B.7
1906311000	SAIL-M12WM12W-4-10U	B.7
1906330000	SAIL-M12WM8W-3-X.XU	B.5
1906330150	SAIL-M12WM8W-3-1.5U	B.33
1906330150	SAIL-M12WM8W-3-1.5U	B.5
1906330300	SAIL-M12WM8W-3-3.0U	B.5
1906330500	SAIL-M12WM8W-3-5.0U	B.5
1906331000	SAIL-M12WM8W-3-10U	B.5
1906340000	SAIL-M12WM8W-4-X.XU	B.5
1906340150	SAIL-M12WM8W-4-1.5U	B.33
1906340150	SAIL-M12WM8W-4-1.5U	B.5
1906340300	SAIL-M12WM8W-4-3.0U	B.5
1906340500	SAIL-M12WM8W-4-5.0U	B.5
1906341000	SAIL-M12WM8W-4-10U	B.5
1906390000	SAIS-5/7-ZF	C.24
1906390000	SAIS-5/7-ZF	C.5
1906400150	SAIL-M8BW-4L1.5U	B.23
1906410000	SAIL-M12GM12W-4-2LX.XU	B.8
1906410150	SAIL-M12GM12W-4-2L1.5U	B.32
1906410150	SAIL-M12GM12W-4-2L1.5U	B.8
1906410300	SAIL-M12GM12W-4-2L3.0U	B.8
1906410500	SAIL-M12GM12W-4-2L5.0U	B.8
1906411000	SAIL-M12GM12W-4-2L10U	B.8
1906430150	SAIL-M12GM8W-4L1.5U	B.36
1906450150	SAIL-M8GM8W-4L1.5U	B.40
1906470150	SAIL-M12G-3S1.5U	B.17
1906480150	SAIL-M12G-4S1.5U	B.17
1906500150	SAIL-M12W-3S1.5U	B.17
1906520150	SAIL-M12W-5S1.5U	B.17
1906540150	SAIL-M12BW-5S1.5U	B.17
1906560150	SAIL-M8G-3S1.5U	B.21
1906570150	SAIL-M8G-4S1.5U	B.21
1906580150	SAIL-M8W-3S1.5U	B.21
1906590150	SAIL-M8W-4S1.5U	B.21
1906600150	SAIL-M8BG-3S1.5U	B.21
1906610150	SAIL-M8BG-4S1.5U	B.21
1906620150	SAIL-M8BW-3S1.5U	B.21
1906630150	SAIL-M8BW-4S1.5U	B.21
1906950150	SAIL-M12BW-3S1.5U	B.17
1909500000	VG M16 - MS 1/EMV	M.83
1909860000	VG M16-1/K68	M.83
1909910000	VG M16-1/MS68	M.83

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1910000000	SCREWTY SET	M.68
1910000000	SCREWTY SET	M.69
1910000000	SCREWTY SET	N.5
1912110150	SAIL-ZW-M12BW-3L1.5U	B.45
1912130000	ESG 8/13.5/43.3 SAI AU	N.24
1915220000	SAI JP 4P LG	H.10
1916700150	SAIL-VSCD-M8G-3-1.5U	B.61
1917400000	SAI-TS35 MF	E.37
1918520000	SAI JP 5P LG	H.10
1919680000	PB SUB-D IDC TERM PS	M.19

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1920000000	SCREWTY SET -DM	M.68
1920000000	SCREWTY SET -DM	M.69
1920000000	SCREWTY SET -DM	N.5
1920700000	SAIS 5/9-VA	C.25
1920700000	SAIS 5/9-VA	E.23
1920700000	SAIS 5/9-VA	M.32
1920700001	SAIS 5/9-VA D-COD	C.25
1920700001	SAIS 5/9-VA D-COD	E.23
1920700001	SAIS 5/9-VA D-COD	M.77
1920710000	SAIB 5/9-VA	C.25
1920710000	SAIB 5/9-VA	E.23
1920710000	SAIB 5/9-VA	M.32
1920720000	SAIS 5/9-VA-B-COD	C.25
1920720000	SAIS 5/9-VA-B-COD	E.23
1920720000	SAIS 5/9-VA-B-COD	M.10
1920730000	SAIB 5/9-VA-B-COD	C.25
1920730000	SAIB 5/9-VA-B-COD	E.23

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1920970000	SAIBW-M8-3P(TL)	C.20
1920970000	SAIBW-M8-3P(TL)	C.6
1920980000	SAIBW-M8-4P(TL)	C.20
1920980000	SAIBW-M8-4P(TL)	C.6
1920990000	SAISW-M8-3P(TL)	C.20
1920990000	SAISW-M8-3P(TL)	C.6
1921000000	SAISW-M8-4P(TL)	C.20
1921000000	SAISW-M8-4P(TL)	C.6
1921010000	SAIBM-M8-3P(TL)	C.19
1921010000	SAIBM-M8-3P(TL)	C.6
1921020000	SAIBM-M8-4P(TL)	C.19
1921020000	SAIBM-M8-4P(TL)	C.6
1921030000	SAISM-M8-3P(TL)	C.19
1921030000	SAISM-M8-3P(TL)	C.6
1921040000	SAISM-M8-4P(TL)	C.19
1921040000	SAISM-M8-4P(TL)	C.6
1921050000	SAIS-5/7-(KV)	C.10
1921060000	SAIS-4/7-(KV)	C.10
1921070000	SAIB-5/7-(KV)	C.10
1921080000	SAIB-4/7-(KV)	C.10
1924950000	SAIS-12/9-(TL)	C.18
1924950000	SAIS-12/9-(TL)	C.5
1924960000	SAIB-12/9-(TL)	C.18
1924960000	SAIB-12/9-(TL)	C.5
1924970000	SAIB-5/7-ZF	C.24
1924970000	SAIB-5/7-ZF	C.5
1924980000	SAI-ASI T FFR	M.55
1925010000	SAI-ASI T FR	M.54
1925300150	SAIL-M12GM12G-3-1.5V	B.29
1925300150	SAIL-M12GM12G-3-1.5V	B.6
1925300300	SAIL-M12GM12G-3-3.0V	B.6
1925300500	SAIL-M12GM12G-3-5.0V	B.6
1925301000	SAIL-M12GM12G-3-10V	B.6
1925310150	SAIL-M12GM12G-4-1.5V	B.29
1925310150	SAIL-M12GM12G-4-1.5V	B.6
1925310300	SAIL-M12GM12G-4-3.0V	B.6
1925310500	SAIL-M12GM12G-4-5.0V	B.6
1925311000	SAIL-M12GM12G-4-10V	B.6
1925320150	SAIL-M12GM12G-5-1.5V	B.29
1925320150	SAIL-M12GM12G-5-1.5V	B.7
1925320300	SAIL-M12GM12G-5-3.0V	B.7
1925320500	SAIL-M12GM12G-5-5.0V	B.7
1925321000	SAIL-M12GM12G-5-10V	B.7
1925330150	SAIL-M12GM12G-2/4-1.5V	B.31
1925340150	SAIL-M12GM12W-3-1.5V	B.29
1925340150	SAIL-M12GM12W-3-1.5V	B.7
1925340300	SAIL-M12GM12W-3-3.0V	B.7
1925340500	SAIL-M12GM12W-3-5.0V	B.7
1925341000	SAIL-M12GM12W-3-10V	B.7
1925350150	SAIL-M12GM12W-4-1.5V	B.29
1925350150	SAIL-M12GM12W-4-1.5V	B.7
1925350300	SAIL-M12GM12W-4-3.0V	B.7
1925350500	SAIL-M12GM12W-4-5.0V	B.7
1925351000	SAIL-M12GM12W-4-10V	B.7
1925360150	SAIL-M12GM12W-5-1.5V	B.29
1925360150	SAIL-M12GM12W-5-1.5V	B.7
1925360300	SAIL-M12GM12W-5-3.0V	B.7
1925360500	SAIL-M12GM12W-5-5.0V	B.7
1925361000	SAIL-M12GM12W-5-10V	B.7
1925370150	SAIL-M12GM12W-2/4-1.5V	B.31
1925380150	SAIL-M12WM12W-3-1.5V	B.29
1925380150	SAIL-M12WM12W-3-1.5V	B.7
1925380300	SAIL-M12WM12W-3-3.0V	B.7
1925380500	SAIL-M12WM12W-3-5.0V	B.7
1925381000	SAIL-M12WM12W-3-10V	B.7
1925390150	SAIL-M12WM12W-4-1.5V	B.29
1925390150	SAIL-M12WM12W-4-1.5V	B.7
1925390300	SAIL-M12WM12W-4-3.0V	B.7
1925390500	SAIL-M12WM12W-4-5.0V	B.7
1925391000	SAIL-M12WM12W-4-10V	B.7
1925400150	SAIL-M12WM12W-5-1.5V	B.29
1925400150	SAIL-M12WM12W-5-1.5V	B.7
1925400300	SAIL-M12WM12W-5-3.0V	B.7
1925400500	SAIL-M12WM12W-5-5.0V	B.7
1925401000	SAIL-M12WM12W-5-10V	B.7
1925410150	SAIL-M12GM12W-3L1.5V	B.32
1925410150	SAIL-M12GM12W-3L1.5V	B.8
1925410300	SAIL-M12GM12W-3L3.0V	B.8
1925410500	SAIL-M12GM12W-3L5.0V	B.8
1925411000	SAIL-M12GM12W-3L10V	B.8
1925420150	SAIL-M12GM12W-4-2L1.5V	B.32
1925420150	SAIL-M12GM12W-4-2L1.5V	B.8
1925420300	SAIL-M12GM12W-4-2L3.0V	B.8
1925420500	SAIL-M12GM12W-4-2L5.0V	B.8
1925421000	SAIL-M12GM12W-4-2L10V	B.8
1925430150	SAIL-M12G-3-1.5V	B.11
1925430150	SAIL-M12G-3-1.5V	B.4
1925430300	SAIL-M12G-3-3.0V	B.4
1925430500	SAIL-M12G-3-5.0V	B.4
1925431000	SAIL-M12G-3-10V	B.4
1925440150	SAIL-M12G-4-1.5V	B.11
1925440150	SAIL-M12G-4-1.5V	B.4
1925440300	SAIL-M12G-4-3.0V	B.4
1925440500	SAIL-M12G-4-5.0V	B.4
1925441000	SAIL-M12G-4-10V	B.4
1925450150	SAIL-M12G-5-1.5V	B.11
1925450150	SAIL-M12G-5-1.5V	B.4
1925450300	SAIL-M12G-5-3.0V	B.4

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1925450500	SAIL-M12G-5-5.0V	B.4
1925451000	SAIL-M12G-5-10V	B.4
1925460150	SAIL-M12BW-3L1.5V	B.16
1925460150	SAIL-M12BW-3L1.5V	B.8
1925460300	SAIL-M12BW-3L3.0V	B.8
1925460500	SAIL-M12BW-3L5.0V	B.8
1925461000	SAIL-M12BW-3L10V	B.8
1925470150	SAIL-M12BW-4-2L1.5V	B.16
1925470150	SAIL-M12BW-4-2L1.5V	B.8
1925470300	SAIL-M12BW-4-2L3.0V	B.8
1925470500	SAIL-M12BW-4-2L5.0V	B.8
1925471000	SAIL-M12BW-4-2L10V	B.8
1925510150	SAIL-M12W-3-1.5V	B.11
1925510150	SAIL-M12W-3-1.5V	B.4
1925510300	SAIL-M12W-3-3.0V	B.4
1925510500	SAIL-M12W-3-5.0V	B.4
1925511000	SAIL-M12W-3-10V	B.4
1925520150	SAIL-M12W-4-1.5V	B.11
1925520150	SAIL-M12W-4-1.5V	B.4
1925520300	SAIL-M12W-4-3.0V	B.4
1925520500	SAIL-M12W-4-5.0V	B.4
1925521000	SAIL-M12W-4-10V	B.4
1925530150	SAIL-M12W-5-1.5V	B.11
1925530150	SAIL-M12W-5-1.5V	B.4
1925530300	SAIL-M12W-5-3.0V	B.4
1925530500	SAIL-M12W-5-5.0V	B.4
1925531000	SAIL-M12W-5-10V	B.4
1925570150	SAIL-M12BG-3-1.5V	B.11
1925570150	SAIL-M12BG-3-1.5V	B.6
1925570300	SAIL-M12BG-3-3.0V	B.6
1925570500	SAIL-M12BG-3-5.0V	B.6
1925571000	SAIL-M12BG-3-10V	B.6
1925580150	SAIL-M12BG-4-1.5V	B.11
1925580150	SAIL-M12BG-4-1.5V	B.6
1925580300	SAIL-M12BG-4-3.0V	B.6
1925580500	SAIL-M12BG-4-5.0V	B.6
1925581000	SAIL-M12BG-4-10V	B.6
1925590150	SAIL-M12BG-5-1.5V	B.11
1925590150	SAIL-M12BG-5-1.5V	B.7
1925590300	SAIL-M12BG-5-3.0V	B.7
1925590500	SAIL-M12BG-5-5.0V	B.7
1925591000	SAIL-M12BG-5-10V	B.7
1925630150	SAIL-M12BW-3-1.5V	B.11
1925630150	SAIL-M12BW-3-1.5V	B.7
1925630300	SAIL-M12BW-3-3.0V	B.7
1925630500	SAIL-M12BW-3-5.0V	B.7
1925631000	SAIL-M12BW-3-10V	B.7
1925640150	SAIL-M12BW-4-1.5V	B.11
1925640150	SAIL-M12BW-4-1.5V	B.7
1925640300	SAIL-M12BW-4-3.0V	B.7
1925640500	SAIL-M12BW-4-5.0V	B.7
1925641000	SAIL-M12BW-4-10V	B.7
1925650150	SAIL-M12BW-5-1.5V	B.11
1925650150	SAIL-M12BW-5-1.5V	B.7
1925650300	SAIL-M12BW-5-3.0V	B.7
1925650500	SAIL-M12BW-5-5.0V	B.7
1925651000	SAIL-M12BW-5-10V	B.7
1925870000	SAIBW-12/9-(TL)	C.18
1926690150	SAIL-M12G-5S1.5U	B.17
1927150150	SAIL-M8GM8G-3-1.5V	B.38
1927150150	SAIL-M8GM8G-3-1.5V	B.4
1927150300	SAIL-M8GM8G-3-3.0V	B.4
1927150500	SAIL-M8GM8G-3-5.0V	B.4
1927151000	SAIL-M8GM8G-3-10V	B.4
1927160150	SAIL-M8GM8G-4-1.5V	B.38
1927160150	SAIL-M8GM8G-4-1.5V	B.5
1927160300	SAIL-M8GM8G-4-3.0V	B.5
1927160500	SAIL-M8GM8G-4-5.0V	B.5
1927161000	SAIL-M8GM8G-4-10V	B.5
1927170150	SAIL-M8GM8W-3-1.5V	B.38
1927170150	SAIL-M8GM8W-3-1.5V	B.5
1927170300	SAIL-M8GM8W-3-3.0V	B.5
1927170500	SAIL-M8GM8W-3-5.0V	B.5
1927171000	SAIL-M8GM8W-3-10V	B.5
1927180150	SAIL-M8GM8W-4-1.5V	B.38
1927180150	SAIL-M8GM8W-4-1.5V	B.5
1927180300	SAIL-M8GM8W-4-3.0V	B.5
1927180500	SAIL-M8GM8W-4-5.0V	B.5
1927181000	SAIL-M8GM8W-4-10V	B.5
1927190150	SAIL-M8GM8W-3L1.5V	B.40
1927190150	SAIL-M8GM8W-3L1.5V	B.5
1927190300	SAIL-M8GM8W-3L3.0V	B.5
1927190500	SAIL-M8GM8W-3L5.0V	B.5
1927191000	SAIL-M8GM8W-3L10V	B.5
1927200150	SAIL-M8GM8W-4L1.5V	B.40
1927210150	SAIL-M8WM8W-3-1.5V	B.38
1927210150	SAIL-M8WM8W-3-1.5V	B.5
1927210300	SAIL-M8WM8W-3-3.0V	B.5
1927210500	SAIL-M8WM8W-3-5.0V	B.5
1927211000	SAIL-M8WM8W-3-10V	B.5
1927220150	SAIL-M8WM8W-4-1.5V	B.38
1927220150	SAIL-M8WM8W-4-1.5V	B.5
1927220300	SAIL-M8WM8W-4-3.0V	B.5
1927220500	SAIL-M8WM8W-4-5.0V	B.5
1927221000	SAIL-M8WM8W-4-10V	B.5
1927230150	SAIL-M8G-3-1.5V	B.19
1927230150	SAIL-M8G-3-1.5V	B.4
1927230300	SAIL-M8G-3-3.0V	B.4
1927230500	SAIL-M8G-3-5.0V	B.4

Order No.	Type	Page
1927231000	SAIL-M8G-3-10V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.19
1927240150	SAIL-M8BG-3-1.5V	B.4
1927240300	SAIL-M8BG-3-3.0V	B.4
1927240500	SAIL-M8BG-3-5.0V	B.4
1927241000	SAIL-M8BG-3-10V	B.4
1927250150	SAIL-M8G-4-1.5V	B.19
1927250150	SAIL-M8G-4-1.5V	B.4
1927250300	SAIL-M8G-4-3.0V	B.4
1927250500	SAIL-M8G-4-5.0V	B.4
1927251000	SAIL-M8G-4-10V	B.4
1927260150	SAIL-M8BG-4-1.5V	B.19
1927260150	SAIL-M8BG-4-1.5V	B.5
1927260300	SAIL-M8BG-4-3.0V	B.5
1927260500	SAIL-M8BG-4-5.0V	B.5
1927261000	SAIL-M8BG-4-10V	B.5
1927310150	SAIL-M8W-3-1.5V	B.19
1927310150	SAIL-M8W-3-1.5V	B.4
1927310300	SAIL-M8W-3-3.0V	B.4
1927310500	SAIL-M8W-3-5.0V	B.4
1927311000	SAIL-M8W-3-10V	B.4
1927320150	SAIL-M8BW-3-1.5V	B.19
1927320150	SAIL-M8BW-3-1.5V	B.5
1927320300	SAIL-M8BW-3-3.0V	B.5
1927320500	SAIL-M8BW-3-5.0V	B.5
1927321000	SAIL-M8BW-3-10V	B.5
1927330150	SAIL-M8W-4-1.5V	B.19
1927330150	SAIL-M8W-4-1.5V	B.4
1927330300	SAIL-M8W-4-3.0V	B.4
1927330500	SAIL-M8W-4-5.0V	B.4
1927331000	SAIL-M8W-4-10V	B.4
1927340150	SAIL-M8BW-4-1.5V	B.19
1927340150	SAIL-M8BW-4-1.5V	B.5
1927340300	SAIL-M8BW-4-3.0V	B.5
1927340500	SAIL-M8BW-4-5.0V	B.5
1927341000	SAIL-M8BW-4-10V	B.5
1927350150	SAIL-M8BW-3L1.5V	B.23
1927350150	SAIL-M8BW-3L1.5V	B.5
1927350300	SAIL-M8BW-3L3.0V	B.5
1927350500	SAIL-M8BW-3L5.0V	B.5
1927351000	SAIL-M8BW-3L10V	B.5
1927360150	SAIL-M8BW-4L1.5V	B.23

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1932380000	SAI-6-S 3P M8 L OL	E.44
1933640000	SAIH-PB-2X0.34-PVC	M.9
1934200000	PB SUB-D ZF TERM PS	M.19
1934890000	SAIBW-8/9-M12	C.5
1934890000	SAIBW-8/9-M12	C.8
1935610000	SAIBW-4/7-(KV)	C.10
1937950150	SAIL-M8GM12G-3-1.5U	B.6
1937950300	SAIL-M8GM12G-3-3.0U	B.6
1937950500	SAIL-M8GM12G-3-5.0U	B.6
1937951000	SAIL-M8GM12G-3-10U	B.6
1937960150	SAIL-M8GM12W-3-1.5U	B.7
1937960300	SAIL-M8GM12W-3-3.0U	B.7
1937960500	SAIL-M8GM12W-3-5.0U	B.7
1937961000	SAIL-M8GM12W-3-10U	B.7
1937970150	SAIL-M8WM12W-3-1.5U	B.7
1937970300	SAIL-M8WM12W-3-3.0U	B.7
1937970500	SAIL-M8WM12W-3-5.0U	B.7
1937971000	SAIL-M8WM12W-3-10U	B.7
1937980150	SAIL-M8GM12G-4-1.5U	B.6
1937980300	SAIL-M8GM12G-4-3.0U	B.6
1937980500	SAIL-M8GM12G-4-5.0U	B.6
1937981000	SAIL-M8GM12G-4-10U	B.6
1937990150	SAIL-M8GM12W-4-1.5U	B.7
1937990300	SAIL-M8GM12W-4-3.0U	B.7
1937990500	SAIL-M8GM12W-4-5.0U	B.7
1937991000	SAIL-M8GM12W-4-10U	B.7
1938000150	SAIL-M8WM12W-4-1.5U	B.7
1938000300	SAIL-M8WM12W-4-3.0U	B.7
1938000500	SAIL-M8WM12W-4-5.0U	B.7
1938001000	SAIL-M8WM12W-4-10U	B.7
1938170150	SAIL-M12GM8G-3-1.5V	B.33
1938170150	SAIL-M12GM8G-3-1.5V	B.4
1938170300	SAIL-M12GM8G-3-3.0V	B.4
1938170500	SAIL-M12GM8G-3-5.0V	B.4
1938171000	SAIL-M12GM8G-3-10V	B.4
1938180150	SAIL-M12GM8W-3-1.5V	B.33
1938180150	SAIL-M12GM8W-3-1.5V	B.5
1938180300	SAIL-M12GM8W-3-3.0V	B.5
1938180500	SAIL-M12GM8W-3-5.0V	B.5
1938181000	SAIL-M12GM8W-3-10V	B.5
1938190150	SAIL-M12WM8W-3-1.5V	B.33
1938190150	SAIL-M12WM8W-3-1.5V	B.5
1938190300	SAIL-M12WM8W-3-3.0V	B.5
1938190500	SAIL-M12WM8W-3-5.0V	B.5
1938191000	SAIL-M12WM8W-3-10V	B.5
1938200150	SAIL-M12GM8G-4-1.5V	B.33
1938200150	SAIL-M12GM8G-4-1.5V	B.5
1938200300	SAIL-M12GM8G-4-3.0V	B.5
1938200500	SAIL-M12GM8G-4-5.0V	B.5
1938201000	SAIL-M12GM8G-4-10V	B.5
1938210150	SAIL-M12GM8W-4-1.5V	B.33
1938210150	SAIL-M12GM8W-4-1.5V	B.5
1938210300	SAIL-M12GM8W-4-3.0V	B.5
1938210500	SAIL-M12GM8W-4-5.0V	B.5

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1938211000	SAIL-M12GM8W-4-10V	B.5
1938220150	SAIL-M12WM8W-4-1.5V	B.33
1938220150	SAIL-M12WM8W-4-1.5V	B.5
1938220300	SAIL-M12WM8W-4-3.0V	B.5
1938220500	SAIL-M12WM8W-4-5.0V	B.5
1938221000	SAIL-M12WM8W-4-10V	B.5
1938230150	SAIL-M8GM12G-3-1.5V	B.6
1938230300	SAIL-M8GM12G-3-3.0V	B.6
1938230500	SAIL-M8GM12G-3-5.0V	B.6
1938231000	SAIL-M8GM12G-3-10V	B.6
1938240150	SAIL-M8GM12W-3-1.5V	B.7
1938240300	SAIL-M8GM12W-3-3.0V	B.7
1938240500	SAIL-M8GM12W-3-5.0V	B.7
1938241000	SAIL-M8GM12W-3-10V	B.7
1938250150	SAIL-M8WM12W-3-1.5V	B.7
1938250300	SAIL-M8WM12W-3-3.0V	B.7
1938250500	SAIL-M8WM12W-3-5.0V	B.7
1938251000	SAIL-M8WM12W-3-10V	B.7
1938260150	SAIL-M8GM12G-4-1.5V	B.6
1938260300	SAIL-M8GM12G-4-3.0V	B.6
1938260500	SAIL-M8GM12G-4-5.0V	B.6
1938261000	SAIL-M8GM12G-4-10V	B.6
1938270150	SAIL-M8GM12W-4-1.5V	B.7
1938270300	SAIL-M8GM12W-4-3.0V	B.7
1938270500	SAIL-M8GM12W-4-5.0V	B.7
1938271000	SAIL-M8GM12W-4-10V	B.7
1938280150	SAIL-M8WM12W-4-1.5V	B.7
1938280300	SAIL-M8WM12W-4-3.0V	B.7
1938280500	SAIL-M8WM12W-4-5.0V	B.7
1938281000	SAIL-M8WM12W-4-10V	B.7
1938300000	SAI-SSA-PG7	C.66
1939170000	SAI-SCREWTY TOOL BOX	N.6
1939180000	SAI-SCREWTY BOX	N.6
1939370150	SAIV-M12BW-2/4-1.5U	B.13
1939410150	SAIV-M12BG-2/4-1.5U	B.13

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1944570000	SAISW-M-5/8 M12 B-COD	C.13
1944570000	SAISW-M-5/8 M12 B-COD	C.5
1944570000	SAISW-M-5/8 M12 B-COD	M.11
1944580000	SAIBW-M-5/8 M12 B-COD	C.13
1944580000	SAIBW-M-5/8 M12 B-COD	C.5
1944580000	SAIBW-M-5/8 M12 B-COD	M.11
1948470150	SAIL-M8GM8GR-3-1.5U	B.39
1948480150	SAIL-M8GM8WR-3-1.5U	B.39
1948490150	SAIL-M8WM8WR-3-1.5U	B.39
1948500150	SAIL-M8GM8GR-4-1.5U	B.39
1948510150	SAIL-M8GM8WR-4-1.5U	B.39
1948520150	SAIL-M8WM8WR-4-1.5U	B.39
1948530150	SAIL-M8BGR-4-1.5U	B.20
1948540150	SAIL-M8BWR-4-1.5U	B.20
1948650150	SAIL-M8GM8GR-3-1.5V	B.39
1948660150	SAIL-M8GM8WR-3-1.5V	B.39
1948670150	SAIL-M8WM8WR-3-1.5V	B.39
1948680150	SAIL-M8GM8GR-4-1.5V	B.39
1948690150	SAIL-M8GM8WR-4-1.5V	B.39
1948700150	SAIL-M8WM8WR-4-1.5V	B.39
1948710150	SAIL-M8BGR-3-1.5V	B.20
1948720150	SAIL-M8BWR-3-1.5V	B.20
1948730150	SAIL-M8BGR-4-1.5V	B.20
1948740150	SAIL-M8BWR-4-1.5V	B.20

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1950270000	SAIE-EW-M20/PG9-SW24-VA	M.33
1955340000	SAIEND CAN M8 4P	M.58

1960000000

1962290150	SAIL-M12GM8W-3L1.5V	B.36
1962300150	SAIL-M12GM8W-4L1.5V	B.36
1962610000	SAISW-5/7-(KV)	C.10
1962620000	SAISW-4/7-(KV)	C.10
1962630000	SAIBW-5/7-(KV)	C.10
1962800150	SAIL-M12BG-B-USB-1.5U	B.37
1963910150	SAIL-M12GM12W-4-3L1.5U	B.32
1963930150	SAIL-M12GM12W-4-3L1.5V	B.32
1963940150	SAIL-M12BW-4-3L1.5U	B.16
1963960150	SAIL-M12BW-4-3L1.5V	B.16
1964280150	SAIL-ZW-M12BW-2/4-1.5U	B.43
1964290150	SAIL-ZW-M12BW-2/4L1.5U	B.45
1964300150	SAIL-ZW-M8BW-3-1.5U	B.44
1964310150	SAIL-ZW-3-1.5U	B.18
1964690150	SAIL-M12BG-CD-1.5A	M.56
1964700150	SAIL-M12G-CD-1.5A	M.56
1964710150	SAIL-M12GM12G-CD-1.5A	M.57
1966170000	SAI AD 54	J.13
1966170000	SAI AD 54	J.6
1966180000	SAI BFSC M3x10	J.13
1966190000	SAI BP 54 KU	J.13
1966190000	SAI BP 54 KU	J.6
1966200000	SAI SIBL GH	J.13
1966200000	SAI SIBL GH	J.6
1968560150	SAIL-M12BW-3-1.5T	B.11
1968570150	SAIL-M12BW-4-1.5T	B.11
1968580150	SAIL-M12BG-4-1.5T	B.11
1968590150	SAIL-M12BG-3-1.5T	B.11

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1981560000	SCREWTY M23	N.5
1981900030	SAIL-M8GM8G-4S-0.3U	M.58
1981900100	SAIL-M8GM8G-4S-1.0U	M.58
1981900150	SAIL-M8GM8G-4S-1.5U	M.58
1981900300	SAIL-M8GM8G-4S-3.0U	M.58
1981900500	SAIL-M8GM8G-4S-5.0U	M.58
1981901000	SAIL-M8GM8G-4S-10U	M.58
1981901500	SAIL-M8GM8G-4S-15U	M.58
1981902000	SAIL-M8GM8G-4S-20U	M.58
1981910150	SAIL-M8BG-4S-1.5U	M.58
1981910300	SAIL-M8BG-4S-3.0U	M.58
1981910500	SAIL-M8BG-4S-5.0U	M.58
1981911000	SAIL-M8BG-4S-10U	M.58
1984530150	SAIL-M12GM8GR-3-1.5U	B.34

1990000000

1990540000	SAI-ADAPT-M8/M12 4P	C.44
1990550000	SAI-ADAPT-M12/M8 3P	C.44
1990560000	SAI-ADAPT-M12/M8 4P	C.44
1990570000	SAI-ADAPT-M8/M8 4/3P	C.44
1995800000	SAI-M23-GS-L-7/12	L.30
1995810000	SAI-M23-BE-L-4/4	L.32
1995820000	SAI-M23-KBC-0.75/2.50	L.33
1995820000	SAI-M23-KBC-0.75/2.50	N.14
1995830000	SAI-M23-KBC-0.25/1.00	L.33
1995830000	SAI-M23-KBC-0.25/1.00	N.14
1995840000	SAI-M23-GS-7/12	L.12
1995850000	SAI-M23-BE-12	L.16
1995860000	SAI-M23-KBC-0.08/0.56	L.18
1995860000	SAI-M23-KBC-0.08/0.56	N.14
1995860000	SAI-M23-KBC-0.08/0.56	N.15

2000000000

2005040000	RIBBON MM 84/300 WS	N.23
2005070000	RIBBON MM 110/360 SW	N.23
2005080000	RIBBON MM 76/360 SW	N.23
2005090000	RIBBON MM-TB 25/360 SW	N.23
2009620000	SAI-4-M-MVV-M12 1:1	D.31

2040000000

2049950150	SAIL-M12BG-S3-1.5PK16	D.8
2049950300	SAIL-M12BG-S3-3.0PK16	D.8
2049950500	SAIL-M12BG-S3-5.0PK16	D.8
2049951000	SAIL-M12BG-S3-10PK16	D.8

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2050010150	SAIL-M12BW-S3-1.5P	D.8
2050010300	SAIL-M12BW-S3-3.0P	D.8
2050010500	SAIL-M12BW-S3-5.0P	D.8
2050011000	SAIL-M12BW-S3-10P	D.8
2050020150	SAIL-M12G-S3-1.5PK16	D.8
2050020300	SAIL-M12G-S3-3.0P	D.8
2050020500	SAIL-M12G-S3-5.0P	D.8
2050021000	SAIL-M12G-S3-10P	D.8
2050050150	SAIL-M12W-S3-1.5P	D.8
2050050300	SAIL-M12W-S3-3.0P	D.8
2050050500	SAIL-M12W-S3-5.0P	D.8
2050051000	SAIL-M12W-S3-10P	D.8
2050060150	SAIL-M12GM12G-S3-1.5P	D.9
2050060300	SAIL-M12GM12G-S3-3.0P	D.9
2050060500	SAIL-M12GM12G-S3-5.0P	D.9
2050061000	SAIL-M12GM12G-S3-10P	D.9
2050080150	SAIL-M12WM12G-S3-1.5P	D.9
2050080300	SAIL-M12WM12G-S3-3.0P	D.9
2050080500	SAIL-M12WM12G-S3-5.0P	D.9
2050081000	SAIL-M12WM12G-S3-10P	D.9
2050100150	SAIL-M12GM12W-S3-1.5P	D.9
2050100300	SAIL-M12GM12W-S3-3.0P	D.9
2050100500	SAIL-M12GM12W-S3-5.0P	D.9
2050101000	SAIL-M12GM12W-S3-10P	D.9
2050150150	SAIL-M12WM12W-S3-1.5P	D.9
2050150300	SAIL-M12WM12W-S3-3.0P	D.9
2050150500	SAIL-M12WM12W-S3-5.0P	D.9
2050151000	SAIL-M12WM12W-S3-10P	D.9
2050160150	SAIL-M12BG-S-1.5P	D.8
2050160300	SAIL-M12BG-S-3.0P	D.8
2050160500	SAIL-M12BG-S-5.0P	D.8
2050161000	SAIL-M12BG-S-10P	D.8
2050210150	SAIL-M12BW-S-1.5P	D.8
2050210300	SAIL-M12BW-S-3.0P	D.8
2050210500	SAIL-M12BW-S-5.0P	D.8
2050211000	SAIL-M12BW-S-10P	D.8
2050230150	SAIL-M12G-S-1.5P	D.8
2050230300	SAIL-M12G-S-3.0P	D.8
2050230500	SAIL-M12G-S-5.0P	D.8
2050231000	SAIL-M12G-S-10P	D.8
2050260150	SAIL-M12W-S-1.5P	D.8
2050260300	SAIL-M12W-S-3.0P	D.8
2050260500	SAIL-M12W-S-5.0P	D.8
2050261000	SAIL-M12W-S-10P	D.8
2050270150	SAIL-M12GM12G-S-1.5P	D.9
2050270300	SAIL-M12GM12G-S-3.0P	D.9
2050270500	SAIL-M12GM12G-S-5.0P	D.9

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2050271000	SAIL-M12GM12G-S-10P	D.9
2050350150	SAIL-M12WM12G-S-1.5P	D.9
2050350300	SAIL-M12WM12G-S-3.0P	D.9
2050350500	SAIL-M12WM12G-S-5.0P	D.9
2050351000	SAIL-M12WM12G-S-10P	D.9
2050460150	SAIL-M12GM12W-S-1.5P	D.9
2050460300	SAIL-M12GM12W-S-3.0P	D.9
2050460500	SAIL-M12GM12W-S-5.0P	D.9
2050461000	SAIL-M12GM12W-S-10P	D.9
2050470150	SAIL-M12WM12W-S-1.5P	D.9
2050470300	SAIL-M12WM12W-S-3.0P	D.9
2050470500	SAIL-M12WM12W-S-5.0P	D.9
2050471000	SAIL-M12WM12W-S-10P	D.9
2050490150	SAIL-M12BG-T-1.5P	D.10
2050490300	SAIL-M12BG-T-3.0P	D.10
2050490500	SAIL-M12BG-T-5.0P	D.10
2050491000	SAIL-M12BG-T-10P	D.10
2050560150	SAIL-M12BW-T-1.5P	D.10
2050560300	SAIL-M12BW-T-3.0P	D.10
2050560500	SAIL-M12BW-T-5.0P	D.10
2050561000	SAIL-M12BW-T-10P	D.10
2050640150	SAIL-M12G-T-1.5P	D.10
2050640300	SAIL-M12G-T-3.0P	D.10
2050640500	SAIL-M12G-T-5.0P	D.10
2050641000	SAIL-M12G-T-10P	D.10
2050650150	SAIL-M12W-T-1.5P	D.10
2050650300	SAIL-M12W-T-3.0P	D.10
2050650500	SAIL-M12W-T-5.0P	D.10
2050651000	SAIL-M12W-T-10P	D.10
2050680150	SAIL-M12BG-T-1.5H	D.10
2050680300	SAIL-M12BG-T-3.0H	D.10
2050680500	SAIL-M12BG-T-5.0H	D.10
2050681000	SAIL-M12BG-T-10H	D.10
2050690150	SAIL-M12BW-T-1.5H	D.10
2050690300	SAIL-M12BW-T-3.0H	D.10
2050690500	SAIL-M12BW-T-5.0H	D.10
2050691000	SAIL-M12BW-T-10H	D.10
2050700150	SAIL-M12G-T-1.5H	D.10
2050700300	SAIL-M12G-T-3.0H	D.10
2050700500	SAIL-M12G-T-5.0H	D.10
2050701000	SAIL-M12G-T-10H	D.10
2050710150	SAIL-M12W-T-1.5H	D.10
2050710300	SAIL-M12W-T-3.0H	D.10
2050710500	SAIL-M12W-T-5.0H	D.10
2050711000	SAIL-M12W-T-10H	D.10
2050760150	SAIL-M12GM12G-T-1.5P	D.11
2050760300	SAIL-M12GM12G-T-3.0P	D.11
2050760500	SAIL-M12GM12G-T-5.0P	D.11
2050761000	SAIL-M12GM12G-T-10P	D.11
2050820150	SAIL-M12WM12G-T-1.5P	D.11
2050820300	SAIL-M12WM12G-T-3.0P	D.11
2050820500	SAIL-M12WM12G-T-5.0P	D.11
2050821000	SAIL-M12WM12G-T-10P	D.11
2050830150	SAIL-M12GM12W-T-1.5P	D.11
2050830300	SAIL-M12GM12W-T-3.0P	D.11
2050830500	SAIL-M12GM12W-T-5.0P	D.11
2050831000	SAIL-M12GM12W-T-10P	D.11
2050860150	SAIL-M12WM12W-T-1.5P	D.11
2050860300	SAIL-M12WM12W-T-3.0P	D.11
2050860500	SAIL-M12WM12W-T-5.0P	D.11
2050861000	SAIL-M12WM12W-T-10P	D.11
2050870150	SAIL-M12GM12G-T-1.5H	D.11
2050870300	SAIL-M12GM12G-T-3.0H	D.11
2050870500	SAIL-M12GM12G-T-5.0H	D.11
2050871000	SAIL-M12GM12G-T-10H	D.11
2050890150	SAIL-M12WM12G-T-1.5H	D.11
2050890300	SAIL-M12WM12G-T-3.0H	D.11
2050890500	SAIL-M12WM12G-T-5.0H	D.11
2050891000	SAIL-M12WM12G-T-10H	D.11
2050910150	SAIL-M12GM12W-T-1.5H	D.11
2050910300	SAIL-M12GM12W-T-3.0H	D.11
2050910500	SAIL-M12GM12W-T-5.0H	D.11
2050911000	SAIL-M12GM12W-T-10H	D.11
2050920150	SAIL-M12WM12W-T-1.5H	D.11
2050920300	SAIL-M12WM12W-T-3.0H	D.11
2050920500	SAIL-M12WM12W-T-5.0H	D.11
2050921000	SAIL-M12WM12W-T-10H	D.11

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2085620000	SAI-6-M-MVV-M12 S-COD	D.32

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2124610000	SAI-M23-SK-VA-IG	L.35
2124860000	SAI-M23-SK-VA-IG-FS	L.35
2125220000	SAI-M23-SK-VA-AG	L.35
2125950000	SAI-M23-SK-VA-AG-FS	L.35

2320000000

2326170000	B KOTR M12 5P A BU SAI	J.10
2326170000	B KOTR M12 5P A BU SAI	J.13
2326170000	B KOTR M12 5P A BU SAI	J.6
2326170000	B KOTR M12 5P A BU SAI	J.9

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2330260000	SAI-SK-M12-UNI 2029	C.46

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2332380000	B KOTR M8 3P BU SAI	J.13
2332380000	B KOTR M8 3P BU SAI	J.7

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2341480000	B KOTR M12 4P D BU SAI	J.10
2341480000	B KOTR M12 4P D BU SAI	J.13
2341480000	B KOTR M12 4P D BU SAI	J.6
2341480000	B KOTR M12 4P D BU SAI	J.9

2350000000

2350590000	B KOTR B M12 4POL D BU	J.13
2350590000	B KOTR B M12 4POL D BU	J.7
2350600000	B KOTR B M12 5POL A BU	J.13
2350600000	B KOTR B M12 5POL A BU	J.7
2350610000	B KOTR B M12 5POL A SF	J.10
2350610000	B KOTR B M12 5POL A SF	J.13
2350610000	B KOTR B M12 5POL A SF	J.7
2350620000	B KOTR B M12 5POL B BU	J.13
2350620000	B KOTR B M12 5POL B BU	J.7
2350630000	B KOTR B M12 5POL B SF	J.13
2350630000	B KOTR B M12 5POL B SF	J.7
2350640000	B KOTR BUS M8 4POL BU	J.10
2350640000	B KOTR BUS M8 4POL BU	J.13
2350640000	B KOTR BUS M8 4POL BU	J.7
2350640000	B KOTR BUS M8 4POL BU	J.9
2350650000	B KOTR BUS M8 4POL SF	J.10
2350650000	B KOTR BUS M8 4POL SF	J.13
2350650000	B KOTR BUS M8 4POL SF	J.9

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2421570000	SAIE-M8S-3-H5.5TL	I.6
2421580000	SAIE-M8S-4-H5.5TL	I.6
2421590000	SAIE-M8S-5B-H5.5TL	I.6
2421600000	SAIE-M12B-4-H5.5TL-M16	I.22
2421610000	SAIE-M8B-4-H5.5TL	I.6
2421620000	SAIE-M12B-5-H5.5TL-M16	I.22
2421630000	SAIE-M8B-5B-H5.5TL	I.6
2421640000	SAIE-M12B-8-H5.5TL-M16	I.22
2421650000	SAIE-M8B-8-H5.5TL	I.6
2421660000	SAIE-M12B-4-H12TL-M16	I.22
2421680000	SAIE-M12B-5-H12TL-M16	I.22
2421690000	SAIE-M8S-8-H5.5TL	I.6
2421700000	SAIE-M12SB-4-H5.5TL-PG9	I.25
2421710000	SAIE-M12B-8-H12TL-M16	I.22
2421720000	SAID-M8B-3-SMT	I.17
2421720000	SAID-M8B-3-SMT	I.4
2421730000	SAIE-M12SB-4-H12TL-PG9	I.25
2421740000	SAIE-M12S-4-H5.5TL-M16	I.22
2421750000	SAID-M8S-3-SMT	I.17
2421750000	SAID-M8S-3-SMT	I.4
2421760000	SAIE-M12B-8-F10TL	I.28
2421770000	SAIE-M12S-5-H5.5TL-M16	I.22
2421780000	SAID-M8B-3S-SMT	I.17
2421780000	SAID-M8B-3S-SMT	I.4
2421790000	SAIE-M12B-8S-F10TL	I.33
2421800000	SAIE-M12S-8-H5.5TL-M16	I.22
2421810000	SAID-M8S-3S-SMT	I.17
2421810000	SAID-M8S-3S-SMT	I.4
2421820000	SAIE-M12B-8-H10TL	I.28
2421830000	SAIE-M12S-4-H12TL-M16	I.22
2421840000	SAID-M8B-4-SMT	I.17
2421840000	SAID-M8B-4-SMT	I.4
2421850000	SAIE-M12B-8S-H10TL	I.33
2421860000	SAIE-M12S-5-H12TL-M16	I.22
2421870000	SAID-M8S-4-SMT	I.17
2421870000	SAID-M8S-4-SMT	I.4
2421880000	SAIE-M12B-4S-H6.75TL	I.26
2421890000	SAIE-M12S-8-H12TL-M16	I.22
2421900000	SAID-M8B-4S-SMT	I.17
2421900000	SAID-M8B-4S-SMT	I.4
2421910000	SAIE-M12B-5S-H6.75TL	I.26
2421920000	SAIE-M12B-4-H5.5TL-PG9	I.23
2421930000	SAID-M8S-4S-SMT	I.17
2421930000	SAID-M8S-4S-SMT	I.4
2421940000	SAIE-M12B-8S-H6.75TL	I.26
2421950000	SAIE-M12B-4-H12TL-PG9	I.23
2421960000	SAID-M8B-5-SMT	I.17
2421960000	SAID-M8B-5-SMT	I.4
2421970000	SAIE-M12BB-4S-H6.75TL	I.26
2421980000	SAIE-M12B-5-H5.5TL-PG9	I.23
2421990000	SAID-M8S-5-SMT	I.17
2421990000	SAID-M8S-5-SMT	I.4
2422000000	SAIE-M12BD-4S-H6.75TL	I.26
2422010000	SAIE-M12B-5-H12TL-PG9	I.23
2422020000	SAID-M8B-5S-SMT	I.17
2422020000	SAID-M8B-5S-SMT	I.4
2422040000	SAIE-M12B-8-H5.5TL-PG9	I.23
2422050000	SAID-M8S-5S-SMT	I.17
2422050000	SAID-M8S-5S-SMT	I.4
2422060000	SAID-M12B-4-9SMT	I.39
2422060000	SAID-M12B-4-9SMT	I.5
2422070000	SAIE-M12B-8-H12TL-PG9	I.23
2422080000	SAID-M8B-8-SMT	I.17
2422080000	SAID-M8B-8-SMT	I.4
2422090000	SAID-M12B-4-9SMT-TR	I.40
2422100000	SAIE-M12S-4-H5.5TL-PG9	I.23

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2422110000	SAID-M8S-8-SMT	I.17
2422110000	SAID-M8S-8-SMT	I.4
2422120000	SAID-M12B-5-9SMT	I.39
2422120000	SAID-M12B-5-9SMT	I.5
2422130000	SAIE-M12S-4-H12TL-PG9	I.23
2422140000	SAID-M8B-8S-SMT	I.17
2422140000	SAID-M8B-8S-SMT	I.4
2422150000	SAID-M12B-5-9SMT-TR	I.40
2422160000	SAIE-M12S-5-H5.5TL-PG9	I.23
2422170000	SAID-M8S-8S-SMT	I.17
2422170000	SAID-M8S-8S-SMT	I.4
2422180000	SAID-M12B-4S-9SMT	I.39
2422180000	SAID-M12B-4S-9SMT	I.5
2422190000	SAIE-M12S-5-H12TL-PG9	I.23
2422200000	SAIE-M8B-3-F9SMT	I.14
2422210000	SAID-M12B-4S-9SMT-TR	I.40
2422220000	SAIE-M12S-8-H5.5TL-PG9	I.23
2422230000	SAIE-M8B-3-F13SMT	I.14
2422240000	SAID-M12B-5S-9SMT	I.39
2422240000	SAID-M12B-5S-9SMT	I.5
2422250000	SAIE-M12S-8-H12TL-PG9	I.23
2422260000	SAIE-M8S-3-F9SMT	I.14
2422270000	SAID-M12B-5S-9SMT-TR	I.40
2422280000	SAIE-M12B-4D-H12TL-M16	I.24
2422290000	SAIE-M8S-3-F13SMT	I.14
2422300000	SAIE-M12B-4-9SMT	I.36
2422310000	SAIE-M12B-4B-H5.5TL-M16	I.24
2422320000	SAIE-M8S-3S-F9SMT	I.16
2422330000	SAIE-M12B-5-9SMT	I.36
2422340000	SAIE-M12B-4B-H12TL-M16	I.24
2422350000	SAIE-M8S-3S-F13SMT	I.16
2422360000	SAIE-M12B-4S-9SMT	I.37
2422370000	SAIE-M12S-4B-H5.5TL-M16	I.24
2422380000	SAIE-M8B-4-H6SMT	I.15
2422390000	SAIE-M12B-5S-9SMT	I.37
2422400000	SAIE-M12S-4B-H12TL-M16	I.24
2422410000	SAIE-M8B-4S-F9SMT	I.16
2422420000	SAID-M12S-8-9SMT	I.39
2422420000	SAID-M12S-8-9SMT	I.5
2422430000	SAIE-M12B-4D-H5.5TL-M16	I.24
2422440000	SAIE-M8B-4S-F13SMT	I.16
2422450000	SAID-M12S-8-9SMT-TR	I.40
2422460000	SAIE-M12B-4-F10TL	I.28
2422470000	SAIE-M8S-4-F9SMT	I.14
2422480000	SAID-M12B-8-9SMT	I.39
2422480000	SAID-M12B-8-9SMT	I.5
2422490000	SAIE-M12B-4S-F10TL	I.33
2422500000	SAIE-M8S-4-F13SMT	I.14
2422510000	SAID-M12B-8-9SMT-TR	I.40
2422520000	SAIE-M12B-5-F10TL	I.28
2422530000	SAIE-M8S-4-H6SMT	I.15
2422540000	SAID-M12S-4-9SMT	I.39
2422540000	SAID-M12S-4-9SMT	I.5
2422550000	SAIE-M12B-5S-F10TL	I.33
2422560000	SAIE-M8S-4S-F9SMT	I.16
2422560000	SAIE-M8S-4S-F9SMT	I.5
2422570000	SAID-M12S-4-9SMT-TR	I.40
2422580000	SAIE-M12S-4-F10TL	I.28
2422590000	SAIE-M8S-4S-F13SMT	I.16
2422600000	SAID-M12S-5-9SMT	I.39
2422600000	SAID-M12S-5-9SMT	I.5
2422610000	SAIE-M12S-4S-F10TL	I.33
2422620000	SAIE-M8S-4S-H10SMT	I.15
2422630000	SAID-M12S-5-9SMT-TR	I.40
2422640000	SAIE-M12S-5-F10TL	I.28
2422650000	SAIE-M8B-5-F9SMT	I.14
2422670000	SAIE-M12S-5S-F10TL	I.33
2422680000	SAIE-M8B-5-F13SMT	I.14
2422700000	SAIE-M12B-4-H10TL	I.28
2422710000	SAIE-M8B-8S-F9SMT	I.16
2422720000	SAID-M12SB-4S-9SMT	I.41
2422720000	SAID-M12SB-4S-9SMT	I.5
2422730000	SAIE-M12B-4S-H10TL	I.33
2422740000	SAIE-M8B-8S-F13SMT	I.16
2422750000	SAID-M12SB-4S-9SMT-TR	I.42
2422760000	SAIE-M12B-5-H10TL	I.28
2422770000	SAIE-M8B-8S-H10SMT	I.15
2422780000	SAID-M12SB-5S-9SMT	I.41
2422780000	SAID-M12SB-5S-9SMT	I.5
2422790000	SAIE-M12B-5S-H10TL	I.33
2422800000	SAIE-M8B-3-F9THR	I.10
2422810000	SAID-M12SB-5S-9SMT-TR	I.42
2422820000	SAIE-M12S-4-H10TL	I.28
2422830000	SAIE-M8B-3-F13THR	I.10
2422840000	SAID-M12BB-4S-9SMT	I.41
2422840000	SAID-M12BB-4S-9SMT	I.5
2422850000	SAIE-M12S-4S-H10TL	I.33
2422860000	SAIE-M8S-3-F9THR	I.10
2422870000	SAID-M12BB-4S-9SMT-TR	I.42
2422880000	SAIE-M12S-5-H10TL	I.28
2422890000	SAIE-M8S-3-F13THR	I.10
2422900000	SAID-M12BB-5S-9SMT	I.41
2422900000	SAID-M12BB-5S-9SMT	I.5
2422910000	SAIE-M12S-5S-H10TL	I.33
2422920000	SAIE-M8S-3S-F9THR	I.12
2422930000	SAID-M12BB-5S-9SMT-TR	I.42
2422940000	SAIE-M12B-4-F5.5TL	I.27
2422950000	SAIE-M8S-3S-F13THR	I.12
2422960000	SAID-M12BD-4S-9SMT	I.41

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2422970000	SAIE-M12B-4S-F5.5TL	I.32
2422980000	SAIE-M8B-4-H6THR	I.11
2422990000	SAID-M12BD-4S-9SMT-TR	I.42
2423000000	SAIE-M12B-5-F5.5TL	I.27
2423010000	SAIE-M8B-4S-F9THR	I.12
2423020000	SAIE-M12B-4-13/14SMT	I.36
2423030000	SAIE-M12B-5S-F5.5TL	I.32
2423040000	SAIE-M8B-4S-F13THR	I.12
2423050000	SAIE-M12B-5-13/14SMT	I.36
2423060000	SAIE-M12S-4-F5.5TL	I.27
2423070000	SAIE-M8S-4-F9THR	I.10
2423080000	SAIE-M12B-8-13/14SMT	I.36
2423090000	SAIE-M12S-4S-F5.5TL	I.32
2423100000	SAIE-M8S-4-F13THR	I.10
2423110000	SAIE-M12B-4S-13/14SMT	I.37
2423120000	SAIE-M12S-5-F5.5TL	I.27
2423130000	SAIE-M8S-4-H6THR	I.11
2423140000	SAIE-M12B-5S-13/14SMT	I.37
2423150000	SAIE-M12S-5S-F5.5TL	I.32
2423160000	SAIE-M8S-4S-F9THR	I.12
2423170000	SAIE-M12B-8S-13/14SMT	I.37
2423180000	SAIE-M12B-4-H5.5TL	I.27
2423200000	SAIE-M12S-4-9/14SMT	I.36
2423210000	SAIE-M12B-4S-H5.5TL	I.32
2423220000	SAIE-M8S-4S-H10THR	I.11
2423230000	SAIE-M12S-5-9/14SMT	I.36
2423240000	SAIE-M12B-5-H5.5TL	I.27
2423250000	SAIE-M8B-5-F9THR	I.10
2423260000	SAIE-M12S-8-9/14SMT	I.36
2423270000	SAIE-M12B-5S-H5.5TL	I.32
2423280000	SAIE-M8B-5-F13THR	I.10
2423290000	SAIE-M12S-4S-9/14SMT	I.37
2423300000	SAIE-M12S-4-H5.5TL	I.27
2423310000	SAIE-M8B-8S-F9THR	I.12
2423320000	SAIE-M12S-5S-9/14SMT	I.37
2423330000	SAIE-M12S-4S-H5.5TL	I.32
2423340000	SAIE-M8B-8S-F13THR	I.12
2423350000	SAIE-M12S-8S-9/14SMT	I.37
2423360000	SAIE-M12S-5-H5.5TL	I.27
2423370000	SAIE-M8B-8S-H10THR	I.11
2423380000	SAID-M12B-8S-9SMT	I.39
2423380000	SAID-M12B-8S-9SMT	I.5
2423390000	SAIE-M12S-5S-H5.5TL	I.32
2423400000	SAIE-M8B-8S-H6TL	I.7
2423410000	SAID-M12B-8S-9SMT-TR	I.40
2423420000	SAIEW-M12B-4-HTL	I.29
2423430000	SAIE-M8S-3S-F9TL	I.8
2423440000	SAIE-M12B-8-9/14SMT	I.36
2423450000	SAIEW-M12B-4S-HTL	I.30
2423460000	SAIE-M8S-3S-F13TL	I.8
2423470000	SAIE-M12B-8S-9/14SMT	I.37
2423480000	SAIEW-M12B-5-HTL	I.29
2423490000	SAIE-M8S-3S-H6TL	I.7
2423500000	SAID-M12S-4S-9SMT	I.39
2423500000	SAID-M12S-4S-9SMT	I.5
2423510000	SAIEW-M12B-5S-HTL	I.30
2423520000	SAIE-M8S-3S-H10TL	I.7
2423530000	SAID-M12S-4S-9SMT-TR	I.40
2423540000	SAIEW-M12B-4-FTL	I.29
2423550000	SAIE-M8B-4S-F9TL	I.8
2423560000	SAID-M12S-5S-9SMT	I.39
2423570000	SAIEW-M12B-4S-FTL	I.30
2423580000	SAIE-M8B-4S-H10TL	I.7
2423590000	SAID-M12S-5S-9SMT-TR	I.40
2423600000	SAIEW-M12B-5-FTL	I.29
2423610000	SAIE-M8S-4S-H6TL	I.7
2423620000	SAID-M12S-8S-9SMT	I.39
2423620000	SAID-M12S-8S-9SMT	I.5
2423630000	SAIEW-M12B-5S-FTL	I.30
2423640000	SAIE-M8S-4S-H10TL	I.7
2423650000	SAID-M12S-8S-9SMT-TR	I.40
2423660000	SAIEW-M12S-4-HTL	I.29
2423670000	SAIE-M8B-5S-F13TL	I.8
2423680000	SAIE-M12BB-4S-9/14SMT	I.38
2423690000	SAIEW-M12S-4S-HTL	I.30
2423700000	SAIE-M8B-5S-H6TL	I.7
2423710000	SAIE-M12BB-5S-9/14SMT	I.38
2423720000	SAIEW-M12S-5-HTL	I.29
2423730000	SAIE-M8B-8S-H10TL	I.7
2423740000	SAIE-M12BB-4S-13/14SMT	I.38
2423750000	SAIEW-M12S-5S-HTL	I.30
2423760000	SAID-M8B-3-THR	I.13
2423770000	SAIE-M12BB-5S-13/14SMT	I.38
2423780000	SAIEW-M12S-4-FTL	I.29
2423790000	SAID-M8S-3-THR	I.13
2423800000	SAIE-M12SB-4S-9SMT	I.38
2423810000	SAIEW-M12S-4S-FTL	I.30
2423820000	SAID-M8B-3S-THR	I.13
2423830000	SAIE-M12SB-5S-9SMT	I.38
2423840000	SAIEW-M12S-5-FTL	I.29
2423850000	SAID-M8S-3S-THR	I.13
2423860000	SAIE-M12BD-4S-9/14SMT	I.38
2423870000	SAIEW-M12S-5S-FTL	I.30
2423880000	SAID-M8B-4-THR	I.13
2423890000	SAIE-M12BD-4S-13/14SMT	I.38
2423900000	SAIE-M12BB-4-F10TL	I.35
2423910000	SAID-M8S-4-THR	I.13
2423920000	SAIFG-M14X1-B-1	I.45

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2423920000	SAIFG-M14X1-B-1	I.5
2423930000	SAIE-M12BB-4-H10TL	I.34
2423940000	SAID-M8B-4S-THR	I.13
2423950000	SAIFG-M14X1-B-2	I.45
2423950000	SAIFG-M14X1-B-2	I.5
2423960000	SAIE-M12SB-4-F10TL	I.35
2423970000	SAID-M8S-4S-THR	I.13
2423980000	SAIFG-M14X1-S-1	I.44
2423980000	SAIFG-M14X1-S-1	I.5
2423990000	SAIE-M12SB-4-H10TL	I.34
2424000000	SAID-M8B-5-THR	I.13
2424010000	SAIE-KMM14X1-SW15	I.44
2424010000	SAIE-KMM14X1-SW15	I.5
2424020000	SAIE-M12BB-4-F5.5TL	I.35
2424030000	SAID-M8S-5-THR	I.13
2424040000	SAIE-M12S-4AS-H6.75TL	I.26
2424050000	SAIE-M12BB-4-H5.5TL	I.34
2424060000	SAID-M8B-5S-THR	I.13
2424070000	SAIE-M12S-5AS-H6.75TL	I.26
2424080000	SAIE-M12SB-4-F5.5TL	I.35
2424090000	SAID-M8S-5S-THR	I.13
2424100000	SAIE-M12S-4DS-H6.75TL	I.26
2424110000	SAIE-M12SB-4-H5.5TL	I.34
2424120000	SAIE-M12S-4BS-H6.75TL	I.26
2424130000	SAID-M8B-8-THR	I.13
2424140000	SAIE-M12BD-4-F10TL	I.35
2424150000	SAID-M8S-8-THR	I.13
2424160000	SAIE-M12S-5A-F-LK	I.46
2424170000	SAIE-M12BD-4-H10TL	I.34
2424180000	SAIE-M12S-4B-F-LK	I.46
2424190000	SAID-M8B-8S-THR	I.13
2424200000	SAIE-M12BD-4-F5.5TL	I.35
2424210000	SAIE-M12S-4A-H-LK	I.46
2424220000	SAID-M8S-8S-THR	I.13
2424230000	SAIE-M12BD-4-H5.5TL	I.34
2424240000	SAIE-M12S-5B-H-LK	I.46
2424250000	SAIEW-M8B-3S-H8TL	I.9
2424260000	SAIEW-M12BB-4-FTL	I.31
2424270000	SAIE-M12S-5A-FV-20-LK	I.47
2424280000	SAIEW-M8B-3S-H12TL	I.9
2424290000	SAIEW-M12BB-4-HTL	I.31
2424300000	SAIEW-M8S-3S-H8TL	I.9
2424310000	SAIE-M12S-4B-FV-20-LK	I.47
2424320000	SAIEW-M12SB-4-FTL	I.31
2424330000	SAIEW-M8S-3S-H12TL	I.9
2424340000	SAIE-M12S-4A-FV-26-LK	I.47
2424350000	SAIEW-M12SB-4-HTL	I.31
2424360000	SAIEW-M8B-4S-H8TL	I.9
2424370000	SAIE-M12S-5A-FV-26-LK	I.47
2424380000	SAIEW-M12BD-4-FTL	I.31
2424390000	SAIEW-M8B-4S-H12TL	I.9
2424400000	SAIE-M12S-4B-FV-26-LK	I.47
2424410000	SAEIW-M12BD-4-HTL	I.31
2424420000	SAIEW-M8S-4S-H8TL	I.9
2424430000	SAIFG-M8B-M10-9	I.18
2424430000	SAIFG-M8B-M10-9	I.4
2424440000	SAIE-M12BD-4-H5.5TL-PG9	I.25
2424450000	SAIEW-M8S-4S-H12TL	I.9
2424460000	SAIFG-M8B-M10-13	I.18
2424460000	SAIFG-M8B-M10-13	I.4
2424470000	SAIE-M12BD-4-H12TL-PG9	I.25
2424480000	SAIHG-M8B-M12-6	I.20
2424480000	SAIHG-M8B-M12-6	I.4
2424490000	SAIE-M12BB-4-H5.5TL-PG9	I.25
2424500000	SAIHG-M8B-M12-10	I.20
2424500000	SAIHG-M8B-M12-10	I.4
2424510000	SAIE-M12BB-4-H12TL-PG9	I.25
2424520000	SAIFG-M8S-M10-9	I.19
2424520000	SAIFG-M8S-M10-9	I.4
2424530000	SAIFG-M8S-M10-13	I.19
2424530000	SAIFG-M8S-M10-13	I.4
2424540000	SAIHG-M8S-M12-6	I.21
2424540000	SAIHG-M8S-M12-6	I.4
2424550000	SAIHG-M8S-M12-10	I.21
2424550000	SAIHG-M8S-M12-10	I.4
2424560000	SAIE-KMM10X1-SW12	I.19
2424560000	SAIE-KMM10X1-SW12	I.4
2424570000	SAIE-KMM12X1-SW14	I.21
2424570000	SAIE-KMM12X1-SW14	I.4
2427060000	SAI-WDF 5P M12 K	C.45

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2430920000	THM MMP	N.23
2436210000	WIL-STANDARD-0.3-SCREW-SW-WHI	G.10
2436340000	WIL-STANDARD-0.3-SCREW-SW-RED	G.11
2436350000	WIL-STANDARD-0.3-SCREW-SW-BLU	G.10
2439350000	SAI-H-M12-T-COD	D.27

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2448880000	RIBBON MM-HS 60/300 SW	N.23

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2455150150	SAIL-M12BG-K-1.5P	D.6
2455150300	SAIL-M12BG-K-3.0P	D.6
2455150500	SAIL-M12BG-K-5.0P	D.6
2455151000	SAIL-M12BG-K-10P	D.6

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2455190150	SAIL-M12BW-K-1.5P	D.6
2455190300	SAIL-M12BW-K-3.0P	D.6
2455190500	SAIL-M12BW-K-5.0P	D.6
2455191000	SAIL-M12BW-K-10P	D.6
2455200150	SAIL-M12BW-L-1.5PGR	D.4
2455200300	SAIL-M12BW-L-3.0PGR	D.4
2455200500	SAIL-M12BW-L-5.0PGR	D.4
2455201000	SAIL-M12BW-L-10PGR	D.4
2455210150	SAIL-M12G-K-1.5P	D.6
2455210300	SAIL-M12G-K-3.0P	D.6
2455210500	SAIL-M12G-K-5.0P	D.6
2455211000	SAIL-M12G-K-10P	D.6
2455220150	SAIL-M12G-L-1.5PGR	D.4
2455220300	SAIL-M12G-L-3.0PGR	D.4
2455220500	SAIL-M12G-L-5.0PGR	D.4
2455221000	SAIL-M12G-L-10PGR	D.4
2455230150	SAIL-M12W-K-1.5P	D.6
2455230300	SAIL-M12W-K-3.0P	D.6
2455230500	SAIL-M12W-K-5.0P	D.6
2455231000	SAIL-M12W-K-10P	D.6
2455240150	SAIL-M12W-L-1.5PGR	D.4
2455240300	SAIL-M12W-L-3.0PGR	D.4
2455240500	SAIL-M12W-L-5.0PGR	D.4
2455241000	SAIL-M12W-L-10PGR	D.4
2455250150	SAIL-M12GM12G-K-1.5P	D.7
2455250300	SAIL-M12GM12G-K-3.0P	D.7
2455250500	SAIL-M12GM12G-K-5.0P	D.7
2455251000	SAIL-M12GM12G-K-10P	D.7
2455260150	SAIL-M12GM12G-L-1.5PGR	D.5
2455260300	SAIL-M12GM12G-L-3.0PGR	D.5
2455260500	SAIL-M12GM12G-L-5.0PGR	D.5
2455261000	SAIL-M12GM12G-L-10PGR	D.5
2455270150	SAIL-M12GM12W-K-1.5P	D.7
2455270300	SAIL-M12GM12W-K-3.0P	D.7
2455270500	SAIL-M12GM12W-K-5.0P	D.7
2455271000	SAIL-M12GM12W-K-10P	D.7
2455280150	SAIL-M12GM12W-L-1.5PGR	D.5
2455280300	SAIL-M12GM12W-L-3.0PGR	D.5
2455280500	SAIL-M12GM12W-L-5.0PGR	D.5
2455281000	SAIL-M12GM12W-L-10PGR	D.5
2455290150	SAIL-M12WM12W-K-1.5P	D.7
2455290300	SAIL-M12WM12W-K-3.0P	D.7
2455290500	SAIL-M12WM12W-K-5.0P	D.7
2455291000	SAIL-M12WM12W-K-10P	D.7
2455300150	SAIL-M12WM12W-L-1.5PGR	D.5
2455300300	SAIL-M12WM12W-L-3.0PGR	D.5
2455300500	SAIL-M12WM12W-L-5.0PGR	D.5
2455301000	SAIL-M12WM12W-L-10PGR	D.5
2455310150	SAIL-M12WM12G-K-1.5P	D.7
2455310300	SAIL-M12WM12G-K-3.0P	D.7
2455310500	SAIL-M12WM12G-K-5.0P	D.7
2455311000	SAIL-M12WM12G-K-10P	D.7
2455320150	SAIL-M12WM12G-L-1.5PGR	D.5
2455320300	SAIL-M12WM12G-L-3.0PGR	D.5
2455320500	SAIL-M12WM12G-L-5.0PGR	D.5
2455321000	SAIL-M12WM12G-L-10PGR	D.5
2455330150	SAIL-M12BG-L-1.5PGR	D.4
2455330300	SAIL-M12BG-L-3.0PGR	D.4
2455330500	SAIL-M12BG-L-5.0PGR	D.4
2455331000	SAIL-M12BG-L-10PGR	D.4
2457760000	THM MMP CASE	N.23

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2465830000	JPO 24VDC 0.2A M12S	H.6
2467720000	SAI-M23PP-GS-3/7	L.14
2467730000	SAI-M23PP-GS-7/12	L.14
2467740000	SAI-M23PP-GS-11/17	L.14
2467750000	SAI-M23PP-GSW-3/7	L.14
2467760000	SAI-M23PP-GSW-7/12	L.14
2467770000	SAI-M23PP-GSW-11/17	L.14

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2485310000	SAI-WDF 5P B M12 K	C.45

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2490240150	SAIL-M12GM12G-TS-1.5U	D.12
2490240300	SAIL-M12GM12G-TS-3.0U	D.12
2490240600	SAIL-M12GM12G-TS-6.0U	D.12
2490241000	SAIL-M12GM12G-TS-10U	D.12
2495280000	SAI-4-SVV-GM-RM-M12	D.29

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2512390000	SAI-4-S-3P-M8L-M12-LOG	F.5
2512800000	SAI-4-S-3P-M8L-M12-2AND	F.4
2512810000	SAI-8-S-3P-M8L-M12-LOG	F.5
2512820000	SAI-8-S-3P-M8L-M12-2AND	F.4

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2525620000	SAIBC-M-5S-M12-L-COD	D.18
2525650000	SAI-M12L-KBC-2.5	D.19
2525660000	SAI-M12L-KSC-2.5FE	D.19
2526810000	WIL-MAGNET	G.19
2527880000	WIL-STANDARD-1.5-SCREW-SW-WHI	G.4
2527890000	WIL-STANDARD-3.0-SCREW-SW-WHI	G.4

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2527900000	WIL-STANDARD-5.0-SCREW-SW-WHI	G.4
2527910000	WIL-STANDARD-10-SCREW-SW-WHI	G.4
2527920000	WIL-STANDARD-1.5-MAG-SW-WHI	G.5
2527930000	WIL-STANDARD-3.0-MAG-SW-WHI	G.5
2527940000	WIL-STANDARD-5.0-MAG-SW-WHI	G.5
2527950000	WIL-STANDARD-10-MAG-SW-WHI	G.5
2527960000	WIL-STANDARD-1.5-SCREW-OR-WHI	G.4
2527970000	WIL-STANDARD-3.0-SCREW-OR-WHI	G.4
2527980000	WIL-STANDARD-5.0-SCREW-OR-WHI	G.4
2527990000	WIL-STANDARD-10-SCREW-OR-WHI	G.4
2528000000	WIL-STANDARD-1.5-MAG-OR-WHI	G.5
2528010000	WIL-STANDARD-3.0-MAG-OR-WHI	G.5
2528020000	WIL-STANDARD-5.0-MAG-OR-WHI	G.5
2528030000	WIL-STANDARD-10-MAG-OR-WHI	G.5

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2530750000	SAIS-M-5S-IDC-M12-L-COD	D.17
2530760000	SAIB-M-5S-IDC-M12-L-COD	D.17
2530770000	SAIE-M12SL-0.3VFM16-1.5	D.24
2530780000	SAIE-M12BL-0.3VFM16-1.5	D.24
2530790000	SAIE-M12SL-0.3VFM16-2.5	D.24
2530800000	SAIE-M12BL-0.3VFM16-2.5	D.24
2530810000	SAID-M12SL-5-SMT	D.26
2530820000	SAID-M12BL-5-SMT	D.26
2530830000	SAIFG-M12S-L-F12-M16	D.26
2530840000	SAIFG-M12B-L-F12-M16	D.26
2530850000	SAIFG-M12S-L-H11-M16	D.26
2530870000	SAIFG-M12B-L-H11-M16	D.26
2530880000	SAIE-M12SL-5S-F12TL-M16	D.25
2530890000	SAIE-M12BL-5S-F12TL-M16	D.25
2530900000	SAIE-M12SL-5S-H11TL-M16	D.25
2530910000	SAIE-M12BL-5S-H11TL-M16	D.25
2530920000	SAI-M12L-KSC-0.5	D.19
2530930000	SAI-M12L-KSC-0.75	D.19
2530940000	SAI-M12L-KSC-1.5	D.19
2530950000	SAI-M12L-KSC-2.5	D.19
2530960000	SAI-M12L-KSC-0.5FE	D.19
2530970000	SAI-M12L-KSC-0.75FE	D.19
2530980000	SAI-M12L-KSC-1.5FE	D.19
2530990000	SAI-M12L-KBC-0.5	D.19
2531000000	SAI-M12L-KBC-0.75	D.19
2531010000	SAI-M12L-KBC-1.5	D.19
2531020000	SAISC-M-5S-M12-L-COD	D.18
2535770000	WIL-145-W-M12G-0.3U-S	G.6
2535800000	WIL-145-W-XXXX-5.0U-S	G.6
2535810000	WIL-350-W-M12G-0.3U-S	G.6
2535820000	WIL-350-W-XXXX-5.0U-S	G.6
2535830000	WIL-450-W-M12G-0.3U-S	G.7
2535840000	WIL-450-W-XXXX-5.0U-S	G.7
2535850000	WIL-555-W-M12G-0.3U-S	G.7
2535860000	WIL-555-W-XXXX-5.0U-S	G.7
2535870000	WIL-655-W-M12G-0.3U-S	G.8
2535880000	WIL-655-W-XXXX-5.0U-S	G.8
2535890000	WIL-765-W-M12G-0.3U-S	G.8
2535900000	WIL-765-W-XXXX-5.0U-S	G.8
2535910000	WIL-860-W-M12G-0.3U-S	G.9
2535920000	WIL-860-W-XXXX-5.0U-S	G.9
2537700000	WIL-BM-SK-M12-3.0U	G.16
2537710000	WIL-BM-JP-M12-3.0U	G.17
2537720000	WIL-BM-SK	G.16
2537730000	WIL-TS-M12	G.18

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2544780000	SAIS-M-4S-IDC-M12-D-COD	C.32
2548620000	WIL-240-W-Z12V-5.0U-S-M	G.15

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2552580000	IE-PP-RJ45	M.69

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2571480000	ERTE KLBC SPX 10	N.9
2571490000	ERTE KLBC SPX 16	N.9
2576960000	WIL-240-W-M12GM12G-0.3U-S	G.10
2576970000	WIL-240-B-M12GM12G-0.3U-S	G.10
2576980000	WIL-240-R-M12GM12G-0.3U-S	G.11

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2598350000	WIL-NT-STANDARD	G.18
2598970000	SCREWTY SW12	N.5

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2614220000	WIL-SCHWENKHALTER	G.19
2614400000	WIL-240-WW57-M12G-0.3U-S	G.14
2616350000	SAI-M-M12-S-COD	D.27
2616410000	SAI-H3-M12-S-COD	D.27
2616420000	SAI-H3-M12-T-COD	D.27
2616430000	SAI-T-M12-S-COD	D.27
2616440000	SAI-T-M12-T-COD	D.27
2617670500	SAIL-M12G-TS-5.0U	D.12
2617810000	WIL-240-WW40-M12G-0.3U-S	G.13

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2625240000	WIL-240-RYG-M12G-0.3U-S	G.11
2625940000	SAIE-M12BL-0.3VHM16-1.5	D.24
2625950000	SAIE-M12SL-0.3VHM16-1.5	D.24
2625960000	SAIE-M12SL-0.3VHM16-2.5	D.24
2625970000	SAIE-M12BL-0.3VHM16-2.5	D.24

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2633830000	WIL-240-WW27-M12G-0.3U-S	G.13
2635090000	WIL-240-RGBW-M12G-0.3U-S	G.12

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2662450000	SAIEND 1/4 M8G 3P	F.6
2664780000	SAIBC-WDF-D-18/28-4/9CG	C.35
2664790000	SAISC-WDF-D-18/28-4/9CG	C.35
2664800000	SAIBC-5-18/28-4/9CG	C.34
2664810000	SAISC-D-18/28-4/9CG	C.35
2664830000	SAIBWC-5-18/28-4/9CG	C.34
2664840000	SAI-M12-KSC-18/20	C.36
2664850000	SAI-M12-KSC-20/22	C.36
2664860000	SAI-M12-KBC-18/20	C.36
2664870000	SAI-M12-KBC-20/22	C.36

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2671670500	SAIL-M12BG-TS-5.0U	D.12
2672410000	SAISC-5-18/28-4/9CG	C.34
2672420000	SAIBC-D-18/28-4/9CG	C.35
2672430000	SAISWC-5-18/28-4/9CG	C.34
2673710000	SAI-M12-KSC-22/24	C.36
2673720000	SAI-M12-KSC-26/28	C.36
2673730000	SAI-M12-KBC-22/24	C.36
2673740000	SAI-M12-KBC-26/28	C.36

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2681480000	SAISP-4A-4/8-M12	C.21
2681490000	SAISWP-4A-4/8-M12	C.21
2681500000	SAIBP-4A-4/8-M12	C.21
2681510000	SAIBWP-4A-4/8-M12	C.21
2681520000	SAISP-M-4A-4/8-M12	C.22
2681530000	SAISWP-M-4A-4/8-M12	C.22
2681540000	SAIBP-M-4A-4/8-M12	C.22
2681550000	SAIBWP-M-4A-4/8-M12	C.22
2681560000	SAISP-5A-4/8-M12	C.21
2681570000	SAISWP-5A-4/8-M12	C.21
2681580000	SAIBP-5A-4/8-M12	C.21
2681590000	SAIBWP-5A-4/8-M12	C.21
2681600000	SAISP-M-5A-4/8-M12	C.22
2681610000	SAISWP-M-5A-4/8-M12	C.22
2681620000	SAIBP-M-5A-4/8-M12	C.22
2681630000	SAIBWP-M-5A-4/8-M12	C.22
2681640000	SAISP-M-5B-4/8-M12	C.23
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2681670000	SAIBWP-M-5B-4/8-M12	C.23
2681680000	SAISP-M-4D-4/8-M12	C.23
2681690000	SAISWP-M-4D-4/8-M12	C.23
2681700000	SAIBP-M-4D-4/8-M12	C.23
2681710000	SAIBWP-M-4D-4/8-M12	C.23

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4310920000	BFSC M3X10 SAI	J.13
4310920000	BFSC M3X10 SAI	J.6
4311000000	SAI O-RI 7.5X1.5 VI	J.10
4311000000	SAI O-RI 7.5X1.5 VI	J.13
4311000000	SAI O-RI 7.5X1.5 VI	J.6
4311000000	SAI O-RI 7.5X1.5 VI	J.9
4311430000	PTSC 25X12 WN5452	J.10
4311430000	PTSC 25X12 WN5452	J.6
4311430000	PTSC 25X12 WN5452	J.9
4312340000	SAI O-RI 5.0X0.8 NBR	J.10
4312340000	SAI O-RI 5.0X0.8 NBR	J.13
4312340000	SAI O-RI 5.0X0.8 NBR	J.6
4312340000	SAI O-RI 5.0X0.8 NBR	J.9

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4322750000	GWHUE BUS M12 BU SAI	J.7
4322760000	GWHUE BUS M12 SF SAI	J.7

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7915030000	SAI-8-F 5P 2M 0.5/1.0U	E.8

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8425930000	POS-4P M12 M20 150mm	M.33
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8425960000	SAI-SK-M12 BU	C.46
8426220000	FBCON M12 4P FM EMC	C.11
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8564080000	FBCON PA CG/M12 4WAY	M.38
8564090000	FBCON PA CG 1WAY	M.36
8564100000	FBCON PA CG 2WAY	M.37
8564110000	FBCON PA CG 4WAY	M.38
8564150000	FBCON PA CG/M12 1WAY EX	M.48
8564160000	FBCON PA CG/M12 2WAY EX	M.49
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8564290000	FBCON DP CG TERM 24V	M.24
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8564310000	FBCON PA CG/M12 8WAY	M.39
8564320000	FBCON DP M12 TERM 5V	M.24
8564330000	FBCON DP M12 TERM 24V	M.24
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8726110000	FBCON SS PCG 1WAY LIMITER	M.41
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9456000001	SAI-4-S 5P M12	E.6
9456010000	SAI-6-S 4P M12	E.6
9456010001	SAI-6-S 5P M12	E.6
9456020000	SAI-8-S 4P M12	E.6
9456050000	SAI-SK-M12	C.46
9456070150	SAIL-VSBD-1.5U	B.55
9456100150	SAIL-M12G-4-1.5U	B.11
9456100150	SAIL-M12G-4-1.5U	B.4
9456100300	SAIL-M12G-4-3.0U	B.4
9456100500	SAIL-M12G-4-5.0U	B.4
9456101000	SAIL-M12G-4-10U	B.4
9456140150	SAIL-M12BG-5S1.5U	B.17
9456150000	SAIL-M8BW-4-X.XU	B.5
9456150150	SAIL-M8BW-4-1.5U	B.19
9456150150	SAIL-M8BW-4-1.5U	B.5
9456150300	SAIL-M8BW-4-3.0U	B.5
9456150500	SAIL-M8BW-4-5.0U	B.5
9456151000	SAIL-M8BW-4-10U	B.5
9456170150	SAIL-VSCD-M12G-1.5U	B.56
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9456230000	SAI-4-F 4P PUR 20M	E.6
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9456340000	SAI-4-F 5P PUR 10M	E.6
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9456350000	SAI-4-F 5P PUR 15M	E.6
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9456370000	SAI-4-F 5P PUR 20M	E.6
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9456380150	SAIL-M12BW-4-2L1.5U	B.16
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9456380300	SAIL-M12BW-4-2L3.0U	B.8
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9456490000	SAI-6-F 4P PUR 15M	E.6
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9456500150	SAIL-M12WM12G-5-1.5U	B.7
9456500300	SAIL-M12WM12G-5-3.0U	B.7
9456500500	SAIL-M12WM12G-5-5.0U	B.7
9456501000	SAIL-M12WM12G-5-10U	B.7
9456510000	SAI-6-F 4P PUR 20M	E.6
9456510000	SAI-6-F 4P PUR 20M	E.8
9456600000	SAI-6-F 5P PUR 3M	E.8
9456610000	SAI-6-F 5P PUR 5M	E.6
9456610000	SAI-6-F 5P PUR 5M	E.8
9456620000	SAI-6-F 5P PUR 10M	E.6
9456620000	SAI-6-F 5P PUR 10M	E.8
9456630000	SAI-6-F 5P PUR 15M	E.6
9456630000	SAI-6-F 5P PUR 15M	E.8
9456650000	SAI-6-F 5P PUR 20M	E.6
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9456660150	SAIL-M12GM8G-4-1.5U	B.33
9456660150	SAIL-M12GM8G-4-1.5U	B.5
9456660300	SAIL-M12GM8G-4-3.0U	B.5
9456660500	SAIL-M12GM8G-4-5.0U	B.5
9456661000	SAIL-M12GM8G-4-10U	B.5
9456670150	SAIL-M12GM8W-4-1.5U	B.33
9456670150	SAIL-M12GM8W-4-1.5U	B.5
9456670300	SAIL-M12GM8W-4-3.0U	B.5
9456670500	SAIL-M12GM8W-4-5.0U	B.5
9456671000	SAIL-M12GM8W-4-10U	B.5
9456690150	SAIL-M12W-3-1.5U	B.11
9456690150	SAIL-M12W-3-1.5U	B.4
9456690300	SAIL-M12W-3-3.0U	B.4
9456690500	SAIL-M12W-3-5.0U	B.4
9456691000	SAIL-M12W-3-10U	B.4
9456740000	SAI-8-F 4P PUR 3M	E.8
9456750000	SAI-8-F 4P PUR 5M	E.6
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9456750002	SAI-8-FMM-4P M12 5M	E.25
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9456760000	SAI-8-F 4P PUR 10M	E.6
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9456770000	SAI-8-F 4P PUR 15M	E.6
9456770000	SAI-8-F 4P PUR 15M	E.8
9456790000	SAI-8-F 4P PUR 20M	E.6
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9456880000	SAI-8-F 5P PUR 3M	E.8
9456890000	SAI-8-F 5P PUR 5M	E.6
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9456900000	SAI-8-F 5P PUR 10M	E.6
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9456910000	SAI-8-F 5P PUR 15M	E.6
9456910000	SAI-8-F 5P PUR 15M	E.8
9456930000	SAI-8-F 5P PUR 20M	E.6
9456930000	SAI-8-F 5P PUR 20M	E.8
9456940000	SAIS-5/7	C.5
9456940000	SAIS-5/7	C.8
9456950000	SAISW-5/7	C.5
9456950000	SAISW-5/7	C.8
9456990150	SAIL-M12GM12G-2/4-1.5U	B.31
9457040000	SAIL-VSA-M12G-1.5U	B.53
9457230150	SAIL-M12GM12G-3-1.5U	B.29
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9457270150	SAIL-M12GM12W-5-1.5U	B.29
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9457270300	SAIL-M12GM12W-5-3.0U	B.7
9457270500	SAIL-M12GM12W-5-5.0U	B.7
9457271000	SAIL-M12GM12W-5-10U	B.7
9457290000	SAISW-4/7	C.5
9457290000	SAISW-4/7	C.7
9457310150	SAIL-M12GM12W-4-1.5U	B.29
9457310150	SAIL-M12GM12W-4-1.5U	B.7
9457310300	SAIL-M12GM12W-4-3.0U	B.7
9457310500	SAIL-M12GM12W-4-5.0U	B.7
9457311000	SAIL-M12GM12W-4-10U	B.7
9457320150	SAIL-M12BW-3-1.5U	B.11
9457320150	SAIL-M12BW-3-1.5U	B.7
9457320300	SAIL-M12BW-3-3.0U	B.7
9457320500	SAIL-M12BW-3-5.0U	B.7
9457321000	SAIL-M12BW-3-10U	B.7
9457340030	SAIL-M12GM12G-5-0.3U	H.9
9457340060	SAIL-M12GM12G-5-0.6U	H.9
9457340150	SAIL-M12GM12G-5-1.5U	B.29
9457340150	SAIL-M12GM12G-5-1.5U	B.7
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9457340300	SAIL-M12GM12G-5-3.0U	B.7
9457340500	SAIL-M12GM12G-5-5.0U	B.7
9457341000	SAIL-M12GM12G-5-10U	B.7
9457380000	SAIL-M8BWS-3-X.XU	B.5
9457380150	SAIL-M8BW-3-1.5U	B.19
9457380150	SAIL-M8BW-3-1.5U	B.5
9457380300	SAIL-M8BW-3-3.0U	B.5
9457380500	SAIL-M8BW-3-5.0U	B.5
9457381000	SAIL-M8BW-3-10U	B.5
9457390150	SAIL-M12GM12W-3-1.5U	B.29
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9457390300	SAIL-M12GM12W-3-3.0U	B.7
9457390500	SAIL-M12GM12W-3-5.0U	B.7
9457391000	SAIL-M12GM12W-3-10U	B.7
9457400150	SAIL-VSC-M12G-1.5U	B.56
9457410150	SAIL-ZW-M8BW-3L1.5U	B.46
9457420000	SAIH-SLL-3x0,75-8x0,34	B.72
9457430000	SAI-8-MF 5P PUR 10m	E.36
9457450000	SAIL-M8BGS-3-X.XU	B.4
9457450150	SAIL-M8BG-3-1.5U	B.19
9457450150	SAIL-M8BG-3-1.5U	B.4
9457450300	SAIL-M8BG-3-3.0U	B.4
9457450500	SAIL-M8BG-3-5.0U	B.4
9457451000	SAIL-M8BG-3-10U	B.4
9457460150	SAIL-M8BW-3L1.5U	B.23
9457460150	SAIL-M8BW-3L1.5U	B.5
9457460300	SAIL-M8BW-3L3.0U	B.5
9457460500	SAIL-M8BW-3L5.0U	B.5
9457461000	SAIL-M8BW-3L10U	B.5
9457490150	SAIL-ZW-M8BG-3-1.5U	B.44
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9457550000	SAIS-4/7	C.5
9457550000	SAIS-4/7	C.7
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9457600000	SAI-8-F 5P 10M 0.5/1.0U	E.8
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9457610500	SAIL-M12G-5-5.0U	B.4
9457611000	SAIL-M12G-5-10U	B.4
9457670150	SAIL-M12W-5-1.5U	B.11
9457670150	SAIL-M12W-5-1.5U	B.4
9457670300	SAIL-M12W-5-3.0U	B.4
9457670500	SAIL-M12W-5-5.0U	B.4
9457671000	SAIL-M12W-5-10U	B.4
9457680150	SAIL-VSB-M12G-1.5U	B.55
9457690150	SAIL-M12BW-5-1.5U	B.11
9457690150	SAIL-M12BW-5-1.5U	B.7
9457690300	SAIL-M12BW-5-3.0U	B.7
9457690500	SAIL-M12BW-5-5.0U	B.7
9457691000	SAIL-M12BW-5-10U	B.7
9457700000	SAIBW-4/7	C.5
9457700000	SAIBW-4/7	C.7
9457710150	SAIL-VSA-1.5U	B.53
9457720000	SAI-SA-3-IDC	E.18
9457730150	SAIL-M12BG-4-1.5U	B.11
9457730150	SAIL-M12BG-4-1.5U	B.6
9457730300	SAIL-M12BG-4-3.0U	B.6
9457730500	SAIL-M12BG-4-5.0U	B.6
9457731000	SAIL-M12BG-4-10U	B.6
9457740150	SAIL-M12BW-4-1.5U	B.11
9457740150	SAIL-M12BW-4-1.5U	B.7
9457740300	SAIL-M12BW-4-3.0U	B.7
9457740500	SAIL-M12BW-4-5.0U	B.7
9457741000	SAIL-M12BW-4-10U	B.7
9457760150	SAIL-M12GM8W-3L1.5U	B.36
9457760150	SAIL-M12GM8W-3L1.5U	B.5
9457760300	SAIL-M12GM8W-3L3.0U	B.5

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9457760500	SAIL-M12GM8W-3L5.0U	B.5
9457761000	SAIL-M12GM8W-3L10U	B.5
9457770150	SAIL-M12GM8G-3-1.5U	B.33
9457770150	SAIL-M12GM8G-3-1.5U	B.4
9457770300	SAIL-M12GM8G-3-3.0U	B.4
9457770500	SAIL-M12GM8G-3-5.0U	B.4
9457771000	SAIL-M12GM8G-3-10U	B.4
9457780150	SAIL-VSBD-M12G-1.5U	B.55
9457790150	SAIL-M12GM12W-3L1.5U	B.32
9457790150	SAIL-M12GM12W-3L1.5U	B.8
9457790300	SAIL-M12GM12W-3L3.0U	B.8
9457790500	SAIL-M12GM12W-3L5.0U	B.8
9457791000	SAIL-M12GM12W-3L10U	B.8
9457800150	SAIL-M12BW-3L1.5U	B.16
9457800150	SAIL-M12BW-3L1.5U	B.8
9457800300	SAIL-M12BW-3L3.0U	B.8
9457800500	SAIL-M12BW-3L5.0U	B.8
9457801000	SAIL-M12BW-3L10U	B.8
9457810150	SAIL-M12G-3-1.5U	B.11
9457810150	SAIL-M12G-3-1.5U	B.4
9457810300	SAIL-M12G-3-3.0U	B.4
9457810500	SAIL-M12G-3-5.0U	B.4
9457811000	SAIL-M12G-3-10U	B.4
9457820150	SAIL-M12BG-3-1.5U	B.11
9457820150	SAIL-M12BG-3-1.5U	B.6
9457820300	SAIL-M12BG-3-3.0U	B.6
9457820500	SAIL-M12BG-3-5.0U	B.6
9457821000	SAIL-M12BG-3-10U	B.6
9457850150	SAIL-M8BG-4-1.5U	B.19
9457850150	SAIL-M8BG-4-1.5U	B.5
9457850300	SAIL-M8BG-4-3.0U	B.5
9457850500	SAIL-M8BG-4-5.0U	B.5
9457851000	SAIL-M8BG-4-10U	B.5
9457890150	SAIL-M12GM12W-2/4-1.5U	B.31
9457900150	SAIL-M12WM12W-5-1.5U	B.29
9457900150	SAIL-M12WM12W-5-1.5U	B.7
9457900300	SAIL-M12WM12W-5-3.0U	B.7
9457900500	SAIL-M12WM12W-5-5.0U	B.7
9457901000	SAIL-M12WM12W-5-10U	B.7
9457910150	SAIL-M12BG-5-1.5U	B.11
9457910150	SAIL-M12BG-5-1.5U	B.7
9457910300	SAIL-M12BG-5-3.0U	B.7
9457910500	SAIL-M12BG-5-5.0U	B.7
9457911000	SAIL-M12BG-5-10U	B.7
9457920150	SAIL-VSC-1.5U	B.56
9457930150	SAIL-VSB-1.5U	B.55
9457950150	SAIV-M12BG-4-1.5U	B.13
9457960150	SAIV-M12BW-4-1.5U	B.13
9457980150	SAIL-M12GM8W-3-1.5U	B.33
9457980150	SAIL-M12GM8W-3-1.5U	B.5
9457980300	SAIL-M12GM8W-3-3.0U	B.5
9457980500	SAIL-M12GM8W-3-5.0U	B.5
9457981000	SAIL-M12GM8W-3-10U	B.5

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